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ANNUAL REPORT

OF THE

Board of Grain Commissioners for Canada

FOR THE YEAR

1958

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DEPARTMENT OF TRADE AND COMMERCE
OTTAWA, CANADA

Minister:

HON. GORDON CHURCHILL, M.P.

Deputy Minister:
JOHN H. ENGLISH

QUEEN'S PRINTER AND CONTROLLER OF STATIONERY
OTTAWA, 1959

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BOARD OF GRAIN COMMISSIONERS

Winnipeg, Manitoba,
January 23, 1959.

The Honourable Gordon Churchill, M.P.,
Minister of Trade and Commerce,
Ottawa, Canada.

Sir:

We beg to submit herewith Report of the Board of Grain Commissioners for Canada for the year 1958 in compliance with Section 23 of the Canada Grain Act.

This report records information and statistics relating to grain handlings for the crop year August 1, 1957 to July 31, 1958, expenditures and revenue for the fiscal year April 1, 1957 to March 31, 1958, and summarizes the major activities of the Board for the 1958 calendar year.

Grain Supplies and Disposition—Crop Year 1957-58

Canada made considerable progress during the 1957-58 crop year towards the reduction of the record carryover held at the end of the preceding season. Lighter crops, improved overseas exports, and steadily climbing domestic needs resulted in a 19.6% decline in supply levels by July 31, 1958.

The August 1, 1957, supplies of 1,120.3 million bushels of wheat, oats, barley, rye and flaxseed, held either in licensed storage or in farmers' bins, or in transit between positions, represented a record inward stock. Acreage reductions and lighter yields resulted in smaller crops of each of wheat (370.5), oats (380.6), barley (216.0), rye (8.5) and flaxseed (19.2) millions. This total production of 994.8 million bushels, added to the inward carryover, gave an available supply of 2,115.1 million bushels for domestic needs and exports—122.0 millions less than the 1956-57 level.

Canada's export shipments of grain and wheat flour at 435.7 millions were 51.7 millions heavier than clearances recorded for 1956-57. Increased domestic needs boosted Canadian usage for feed, seed, food and industrial use to 779.0 millions, an all-time high.

The combined domestic and export disappearance of 1,214.7 millions was approximately 100.0 millions above the preceding year's level and this, coupled with a smaller available supply, resulted in a 219.9 million bushel, or 19.6% reduction in closing stocks (900.4 million bushels) held in all positions at July 31, 1958.

Within the licensed elevator system there was a moderate increase in the forwarding movement to meet the heavier export flow. Atlantic Seaboard shipments were improved slightly but did not return to former levels. Clearances through Canada's west coast ports accounted for the major expansion and established a new crop season record—169.6 million bushels. For the most part these increases were gradual and evenly distributed over the season. An exception was the movement out of St. Lawrence ports which was down 29.0 millions during the fall period and made its recovery through heavier shipping in the closing quarter of the season.

Marketings

Primary deliveries of wheat, oats, barley, rye and flaxseed from farms to licensed elevators totalled 580.6 million bushels in 1957-58. Heavier marketings during the closing four months did not offset the slow inward movement of the fall period and the crop year total was 8.1 millions below 1956-57 levels despite gains in deliveries of wheat and rye. The bulk—570.1 millions—of this incoming grain was delivered to western country elevators with 5.8 millions

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marketed direct to interior mills and terminals, and only .1 millions of the five principal grains loaded over platforms. Deliveries of eastern grown grains to the licensed system amounted to 4.6 millions, chiefly wheat.

Country Elevator Shipments

Western country elevators reported a slightly heavier volume of car loadings with small increases in the shipments of all grains excepting flaxseed. The crop year total for wheat loadings was 374.3 millions, followed by barley at 118.7 millions, oats at 67.2 millions, flaxseed at 15.5 millions, and rye at 7.1 million bushels. The combined total of 582.8 millions for the five principal grains represented a gain of 22.1 millions over the previous year's rail traffic. Loadings billed westward accounted for 27.9% of country shipments compared with 24.2% in 1956-57 and 21.0% in 1955-56.

Terminal Handlings

The higher proportion of country shipments moving westward was reflected in a 23.9 million bushel decline in grain unloads at Fort William-Port Arthur terminal elevators. The 326.0 million bushels of the five principal grains received at the Canadian Lakehead during 1957-58 were almost identical with both the total quantity and the individual grain amounts moved forward from these terminals by lake and rail during the crop year—wheat 178.2, oats 56.8, barley 78.7, rye 4.9 and flaxseed 10.2 million bushels. The vessel portion of these shipments—316.0 millions—was 5.0 millions heavier than the 1956-57 lake traffic but a reduced rail movement (12.8 millions) offset this gain and the combined outward total was approximately unchanged from the previous season's forwarding level. The decline in outward rail traffic represented a further reduction in the portion of Lakehead shipments moving by box car. In 1952-53, 57.5 millions or 11.1% of total forwarding moved by rail compared with only 3.9% by rail during the year under review.

The Port of Churchill continued its pattern of increased shipping activity with 16.6 million bushels of wheat loaded during the normal August to October period, to which a record early opening on July 26, 1958, added a further 1.1 millions for a 1957-58 crop year total of 18.4 million bushels.

The Pacific coast ports, favoured by an advantage in low ocean freight rates, handled a combined 169.6 million bushels of Canada's overseas grain shipments to surpass the previous record of 139.0 millions established by this sector in 1956-57. The 1957-58 total included 129.7 million bushels of wheat, 2.2 million bushels of oats, 30.3 millions of barley, 1.4 millions of rye and 6.0 millions of flaxseed. The crop year movement represented individual grain records for wheat, rye and flaxseed. The record for barley clearances via the Pacific Seaboard was established at 31.2 millions in 1956-57.

Eastern Elevator Handlings

Improved shipping during the closing months boosted the 1957-58 Eastern Seaboard export total to 154.4 millions for a gain of 9.2 millions over 1956-57 levels. The Maritime ports of Saint John and Halifax increased their export loadings by 3.2 millions to a winter season's total of 30.9 millions. The balance of the expansion occurred largely at Sorel and Three Rivers.

The internal forwarding pattern at Eastern elevators differed little from that recorded for the previous season. Primary and transfer receipts of the five principal grains totalled 451.2 millions of which transfers or re-handling accounted for 179.2 millions compared with a 460.4 millions total and a 180.4 millions transfer movement in 1956-57. Eastern domestic shipments through

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these elevators totalled 115.8 millions, only 1.2 millions heavier than the previous year's movement to flour mills, manufacturing plants and local domestic outlets, principally feed plants and dealers.

Exports

Canada exported 275.7 million bushels of wheat, 39.9 millions of wheat flour, 25.9 million bushels of oats, 75.1 million bushels of barley, 5.4 million bushels of rye and 13.7 million bushels of flaxseed during the 1957-58 crop season. Exports of the five major grains together with the grain equivalent of wheat flour totalled 435.7 million bushels, a gain of 51.7 million bushels over the corresponding total for the 1956-57 season (384.0 millions). The expansion of 47.4 millions in wheat clearances, 6.4 millions in flour shipments and 7.6 millions in oats exports completely offset the 7.9 million bushel drop in exports of Canadian flaxseed from its record level of 21.6 millions in 1956-57 and the minor (1.8 millions) reduction in barley clearances. Rye exports in 1957-58 were almost identical with the preceding season's clearances. The crop year total for the five grains and flour was 120 millions above the long-term (30 year) average of Canadian grain and flour clearances and approximately 57.0 millions above the 378.0 million bushel average recorded for the preceding 10-year period.

The heavier Canadian wheat and flour shipments were made in the face of a reduced world trade in these two commodities and Canada's share of the international movement of bread grains and flour (including rye) moved up sharply from an estimated 22% in 1956-57 to approximately 29.1% during the year under review. Canada's exports of coarse grains held steady in the face of the increasing world market and represented a smaller proportion of the international trade in oats, barley, flaxseed and corn—14% compared with approximately 16% in 1956-57 and 14% in 1955-56.

Domestic Usage

The 779.0 million bushels of wheat, oats, barley, rye and flaxseed used by Canadians for feed, seed and industrial processing to food and other products during the crop year reflected the fourth consecutive yearly increase in Canadian domestic grain usage. The industrial portion as represented by grain moving through the elevator system to mills, maltsters, processors, etc., was practically unchanged with the 47.0 million bushel expansion being drawn directly by farmers and feeders from farm-held stocks. Year ending farm stock surveys, combined with production estimates and commercial marketing records, indicate that approximately 102.7 millions of wheat, 381.7 millions of oats, 122.5 millions of barley, 5.7 millions of rye, and 3.8 millions of flaxseed were used on Canadian farms out of farm-held supplies. These quantities were further supplemented by approximately 91.4 millions of feed and seed grains returned to farm usage after forwarding and/or processing through the licensed elevator system, for the most part from the west to eastern users. Industrial requirements including grain for domestic flour and other human food, distilling, malting and crushing absorbed the remaining 71.2 millions of the 779.0 millions of Canadian grain used domestically.

Carryover

The improved export movement combined with heavier domestic usage and coinciding with lighter crops, reduced Canada's surplus grain supplies appreciably during the 1957-58 crop year. Year ending stocks at July 31, 1958, were estimated to total 900.4 million bushels, reflecting a reduction of 219.9 million bushels from the record high quantities carried over at the close of the previous crop season. The two major items in the 19.6% overall contraction

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achieved during the year were the cuts in stocks of wheat and oats as indicated by the following comparative July 31 carryover totals with 1957 data shown in brackets—wheat 611.5 (729.5), oats 154.9 (226.2), barley 118.2 (142.8), rye 10.1 (14.2) and flaxseed 5.7 (7.6), all in millions of bushels and representing combined holdings, both east and west, on farms, in licensed elevators, in mill bin and in transit between positions on the year ending date.

Licensing and Bonding

The total licensed storage capacity at July 31, 1958, was 636,659,750 bushels, including 14,551,690 bushels in supplementary annexes to country elevators. Licences were in effect for 5,460 country, terminal, mill and eastern elevators; an increase of 8,357,400 bushels capacity, and a decrease of eight licences over the same date in 1957. The greater part of the increase in storage capacity occurred at country elevators.

Assistant Commissioners

Through its four Assistant Commissioners, the Board kept in close touch with the operation of licensed country elevators in the Western Division. During the year 1958, the Assistant Commissioners inspected 685 elevators in Manitoba, 1,095 in Northern Saskatchewan, 951 in Southern Saskatchewan and 1,718 in Alberta, a total of 4,449. This inspection included checks of scales, sieves and certain other equipment; deductions for shrinkage and Prairie Farm Assistance Act Levy; and posting of current Board Regulation applying to country elevators.

Complaints originating from country points totalled 31, including one carried forward from 1957, as compared with 28 in the previous year.

Disposition of complaints investigated was as follows:

	Manitoba	Saskat-chewan	Alberta	Total
No grounds for complaint.....	2	13	—	15
Settlement effected.....	1	9	1	11
Outside jurisdiction of Board.....	1	—	1	2
Complaint withdrawn.....	1	2	—	3
Totals.....	5	24	2	31

The Assistant Commissioners received and handled numerous inquiries on various matters related to country elevator operation. They also discussed accumulated overages with elevator agents concerned.

Prosecutions

No penalties were levied during 1958 for breaches of the Canada Grain Act or the Board's Regulations.

Defaults

As a result of bankruptcy, one licensee was unable to redeem a number of outstanding cash purchase tickets. Settlement for these tickets was made to the owners by the surety company which had executed the licensee's guaranteed bond, on deposit with the Board.

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Shortages and Overages, Country Elevators

While the stock levels in country elevators generally were still high during 1957-58, crop variations across the prairies enabled the operating companies to complete the largest number of country elevator weigh-ups of any season since 1952-53. Reports submitted over the year covered 1,867 separate weigh-overs out of the 5,348 elevators operated, compared with 1,452 completed in 1956-57. The following table contains an analysis and comparison of the results disclosed by these audits:

ELEVATORS REPORTING	1957-58	1956-57
Shortages.....	493	481
Neither overages nor shortages.....	10	2
Overages of less than .25%.....	973	677
Overages of .25% to .50%.....	288	224
Overages over .50%.....	103	68
Total elevators weighed over.....	1,867	1,452

The Board summoned eighty agents of country elevator licensees to appear at hearings held at Winnipeg, Regina, Saskatoon, Calgary and Edmonton in connection with excessively high overages. At these sessions, members of the Board interviewed the agents and examined records concerning their operations in the presence of senior officials of the companies concerned.

Regulations and Orders

Regulation No. 5 was amended effective August 1, 1958, by revising definitions for "Rejected" grades of western barley and flaxseed. Also, two new "Off Grades" of Western grain to be known as "No. 2 Mixed Feed Oats" and "Sample Feed Grain" were named and defined.

Regulation No. 16 was amended effective August 1, 1958, to establish an additional fee of \$5.00 per car for official sampling by probing in the Western Division; this fee payable directly to the Board by the shipper or by the party requesting such service.

Regulation No. 22 was amended effective September 15, 1958, to provide a revised maximum tariff of elevation charges for wagons or trucks at interior terminal elevators at Saskatoon, Moose Jaw, Edmonton, Calgary and Lethbridge.

By Order No. 1—1958-59, dated November 6, 1958, the Board directed that: All artificially dried grain delivered to a licensed country elevator or shipped over a loading platform, shall be declared to be dried grain, and when shipped, the notation "DRIED" shall be carried on the railway bill of lading.

Committees on Grain Standards

The Board constituted Committees on Western and Eastern Grain Standards for the Crop Year 1958-59 as provided in Section 25 of the Canada Grain Act. Personnel of these Committees is listed in Appendix A.

A meeting of the Western Committee was held at Winnipeg on October 23, 1958. The members received numerous reports relating to quality of crops grown in the 1958 season and to various other matters in connection with grading of grain, and also selected and settled standard samples and standard export samples for various grades of Western grain.

The Eastern Committee met in Toronto on August 22, 1958, and in Montreal on November 19, 1958, and established standard samples for grades of grain grown in Eastern Canada.

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Both groups authorized continued use of previously selected standard samples in instances where suitable recent samples for established grades were not available.

Inspection of Grain

The Prairie Provinces had an unusual season in 1958. Crops generally started with adequate soil moisture, followed by very dry weather in May and June. At that time crop prospects looked very poor through Manitoba, Saskatchewan and part of Southern Alberta. When rains came in July, the recovery of crops was amazing; yields and grades were higher than had seemed possible early in the season.

No. 2 Manitoba Northern is the predominating grade of Red Spring Wheat, although grades of No. 4 Manitoba Northern and No. 5 Wheat resulted from wet weather at harvest time in northern areas. A high proportion of the Amber Durum crop grades No. 2 Canada Western.

Grades of rye and flaxseed average high; the ergot content of rye is particularly low in this crop.

Crops of oats and barley suffered loss of grade from weather damage in northern areas, but over most of the Prairies the average quality of these grain is high.

Inspections of rapeseed and tame mustard seed have been higher December 31, 1958, than in the same period a year ago. A high proportion of shipments have qualified for the top grades, but much of the rapeseed from northern areas has been high in moisture content.

Production of safflower seed increased significantly; 160 cars were inspected to December 31, 1958, compared to 59 cars to the end of December 1957.

Research

Estimates of the quality of 1958 crops of spring wheat, durum wheat, barley and oil seeds were published in the fall in two protein maps and four crop bulletins. This information was also presented to the Committee on Western Grain Standards. Changes to improve the presentation and interpretation of the data in the two cargo bulletin series were made at the beginning of the 1958-59 crop year; these bulletins are in wide demand overseas. Systematic studies of competing wheats entering the European market have been initiated and a continuous check on the quality of Canadian grains at various stages of marketing is being maintained.

The Laboratory and the Inspection Branch have continued their close co-operation in the investigation of the effects of grading factors on quality and studies of the quality of the Standard and Standard Export samples were made. The Laboratory assisted in the supervision of moisture testing in the Board's Inspection offices and CAE electrical moisture meters are now installed in seventeen of the offices. An increasing number of requests for service work have come from the Canadian Wheat Board, the Grain Division of the Department of Trade and Commerce, and from our Trade Commissioners in the grain importing countries. Studies of new varieties continue to occupy an important place in the Laboratory's Applied Research Section, and applied and basic research on quality factors in wheat and barley are being vigorously maintained.

The second postdoctoral Fellow under the N.R.C. Fellowship tenable in the Board's Laboratory is Dr. A. H. Bloksma of the Institute for Cereals, Flour and Bread T.N.O., Holland. Dr. Bloksma arrived in September and will work for a year in the Basic Wheat Research section. Mr. G. S. Bains of the Central Food Technological Research Institute, Mysore, India, is spending a year in

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the Applied Wheat Research Section as a Colombo Plan Fellow. Dr. W. Bushuk has returned from Strasbourg, France, where he spent a year on an N.R.C. postdoctoral Fellowship.

Close liaison is being maintained with cereal chemists in all parts of the world; the Laboratory has welcomed many scientists from all parts of the world this year and two senior staff members went abroad to study grain problems. Dr. Anderson visited Europe for technical discussion in the principal grain importing countries. Dr. Hlynka visited Japan with Dr. McCalla, Dean of Graduate Studies, University of Alberta, for technical discussions with cereal scientists there.

Refitting of Laboratory space in connection with the expansion of facilities is now complete, except for the new malting laboratory on the main floor and the Applied Wheat Research Laboratory, which will be moving into space on the eighth floor presently occupied by the malting laboratory. These moves should be completed during the first half of the coming year.

Weighing of Grain

The staff of the Board's Weighing Branch provided usual weighing services at licensed elevators and investigated complaints relating to reports of excessive outturn shortages on carlot and cargo shipments. The Board's scale inspector carried out periodic tests and inspections of scales at licensed terminal and eastern elevators, and made special inspections when such were considered necessary. Further detailed information in regard to the work of this Branch is given in Appendix F.

Weighover of Stocks, Terminal and Eastern Elevators

In accordance with the provisions of Sections 139 and 140 of the Canada Grain Act, 24 terminal and 21 eastern elevators were weighed over during the 1957-58 crop year by members of the Board's Weighing and Inspection staffs.

Deferments into the following crop year were made at 12 terminal elevators at the Lakehead, 9 terminal elevators at other points, and at 9 eastern elevators. The Board found it necessary to grant these deferments to avoid delaying the handling and loading of grain required to meet export orders. However, it was possible to carry out eleven of these deferred weighovers before the end of December, 1958.

Tables G-12 to G-14 of Appendix G contain the results of weighovers carried out in the 1957-58 crop year.

Entomological Investigations

To safeguard Canadian grain in storage from losses by insects, the program of inspection of terminal elevator premises and stocks begun in 1956 has been continued. Most of the terminal elevators were examined at least once during 1958 and those in the Bay Port and St. Lawrence River areas were visited at least twice. Existing conditions were discussed with management and where necessary, control instructions were issued.

In general the terminal elevators are essentially free from insect pests. Much of the improvement stems from the series of short courses given by the Board's Entomologist, Dr. H. E. Gray, to key personnel in the terminal elevators during 1956 and 1957.

A circular has been distributed to the grain trade on the Pacific Coast dealing with specific problems in that area.

The various grain inspection offices of the Board throughout Canada have been visited and insect problems discussed with key personnel.

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Educational contact has been continued with the grain trade through addresses on grain insect control at the Annual Convention of the Grain Elevator and Processing Superintendents, the Conference of Grain Elevator and Processing Superintendents of the National Harbours Board, the Pacific Northwest Fifth Annual Grain Sanitation Short Course, and the joint meeting of the Association of Industrial Sanitarians and the American Association of Cereal Chemists. All of the addresses have been published in trade journals or incorporated in the proceedings of the conferences.

Terminal and Eastern Complaints

During 1958, the Board directed the investigation of 65 complaints regarding reports of excessive outturn shortages on shipments to elevators at the Lakehead, Eastern Canadian points, and U.S.A. points. Included were 31 on vessel shipments from Fort William and Port Arthur, 28 on vessel shipments from Eastern transfer ports, 3 on vessel shipments from other ports, and 3 on carlot shipments.

These complaints were disposed of as follows:

No cause of reported discrepancy found.....	40
No grounds for complaint.....	1
Settlement effected.....	19
Not yet disposed of.....	5
Total.....	65

Complaints on Export Shipments

A total of 36 complaints relating to shipments to overseas destination were dealt with by the Board and its officials during 1958. Of these, 23 complaints concerned outturn weights reported from overseas, and 13 referred to some aspect of the quality of grain cargoes.

Disposition was as follows:

	Quality	Weight
No cause of reported discrepancy found.....	—	14
No grounds for complaint.....	13	—
Settlement effected.....	—	1
Complaint withdrawn.....	—	3
Not yet disposed of.....	—	5
Totals.....	13	23

Statistics

Statistics relating to Canadian grain movement collected and compiled by the Board's Statistics Branch are presented in Appendix G of this report.

Information Program

The Board's mobile exhibit was on display at 18 Agricultural Fairs and Field Days in various parts of Manitoba, Saskatchewan and Alberta during 1958. This exhibit, housed in a large trailer, features a display of the main grain grades, coloured photographs of types of kernel damage, pictures of Board operations, and posters outlining the rights and privileges of the farmer under the Canada Grain Act. It was in charge of two of the Board's Grain Inspectors, who answered many questions from farmers, elevator agents and other interested visitors about grading of grain and the various functions of the Board of Grain Commissioners.

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The colour motion picture film "Grain Handling in Canada" was shown to visitors from Overseas, officials of the Foreign Trade Service of the Department, groups of farmers and agriculture students, and other interested persons.

Missions representing the Japanese Baking Industry, the Swiss Federal Cereals Administration, and the Scottish Co-operative Wholesale Society, visited the Board to discuss matters of mutual interest in the grain trade and obtain first-hand information in regard to the Board's functions and operations. The discussions were followed by tours of the Research Laboratory, the Inspection Branch and other offices.

Other Overseas visitors to the Board's offices came from Australia, Argentina, Belgian Congo, Burma, Denmark, Egypt, Finland, Western Germany, India, Netherlands, New Zealand, Pakistan, Philippines, Peru, Sweden, and the United Kingdom; and included Canadian Commercial Counsellors or Trade Commissioners from Australia, Bogota, Brazil, France, Western Germany, Guatemala, India, Japan, Philippines, and Singapore.

As in previous years, members of the Board and senior officials accepted a number of invitations to address annual meetings of producer organizations and discuss topics of current interest coming under their jurisdiction.

Canadian Government Elevators

Receipts of grain during the crop year 1957-58 at the Canadian Government Terminal Elevators operated by the Board at Moose Jaw, Saskatoon, Calgary, Edmonton, Lethbridge and Prince Rupert were 17.4 million bushels, compared with 17.0 millions in the previous crop year. Shipments amounted to 18.1 millions, a slight reduction from the total of 18.7 million bushels in 1956-57.

In the fiscal year 1957-58, revenues exceeded expenditures by \$467,787.

Lake Freight Rates

The maximum rates authorized by the Board's Order No. 20 of September 28, 1954, as follows, remained in effect throughout the 1958 season of navigation:

	Wheat and Rye	Barley	Oats
(a) From: Fort William or Port Arthur, Ontario, To: Georgian Bay Ports, Goderich, Sarnia and Walkerville.....	—cents—		
Port Colborne.....	5½	5¼	5
Toronto.....	7½	7¼	6¾
Kingston.....	8	7½	7¼
Prescott.....	8¾	8¼	8
Montreal, Sorel, Three Rivers and Quebec City, Direct or Transferred at Intermediate Ports.....	9	8½	8¼
	16	15¼	14

(b) For grain loaded during the month of December in any year these maximum rates are increased two cents (2c) per bushel to compensate for increased insurance rates.

The average rates charged during the season are given in Table G-11 of Appendix G.

Prairie Farm Assistance Act

Under the provisions of Section 11 of the Prairie Farm Assistance Act, the Board continued to collect the one per cent levy on grain purchased by licensees under the Canada Grain Act. During the crop year 1957-58, the amount

TRADE AND COMMERCE

collected was \$6,114,474.50. Collections by the Board since the inception of the Prairie Farm Assistance Act to July 31, 1958, total \$107,311,189.91.

Commencing in the month of August, 1958, as a result of an amendment to the Prairie Farm Assistance Act, licensees have been required to deduct the levy from the purchase price paid for all flax and rapeseed, in addition to wheat, oats, barley and rye.

Organization and Personnel

Mr. A. F. Dollery retired from the position of Chief Grain Inspector after 47 years' service with the Board and was succeeded by Mr. M. J. Conacher. Mr. P. Fraser was promoted to replace Mr. Conacher as Assistant Chief Grain Inspector.

Mr. C. F. Spittle, Licensing Officer of the Board, died on December 6, 1958. He had been a member of the staff since 1913.

At December 31, 1958, the Board's staff totalled 935, the same number as at December 31, 1957. The staff of the Canadian Government Elevators numbered 237, including 12 employees of the new Repair and Reconstruction Unit.

A chart of the Board's organization at the close of the year follows this report.

Expenditure and Revenue

Total expenditure and accrued revenue of the Board, exclusive of the Canadian Government Elevators, for the fiscal year 1957-58 compared with 1956-57 was as follows:

	1957-58	1956-57
Expenditure.....	\$4,295,129.93	\$4,084,162.70
Revenue.....	2,556,669.93	3,038,945.09

Expenditure for the nine months of the 1958-59 fiscal year to December 31, 1958, totalled \$3,054,553 as against \$2,930,732 for the comparable period during 1957-58. Cash Revenue for the same nine-month period amounted to \$2,062,61 as compared with \$1,946,092 in the previous year.

Attached hereto is a series of Appendices which outline in greater detail the work of the Board's Branches.

Respectfully submitted,

R. W. MILNER,
Chief Commissioner

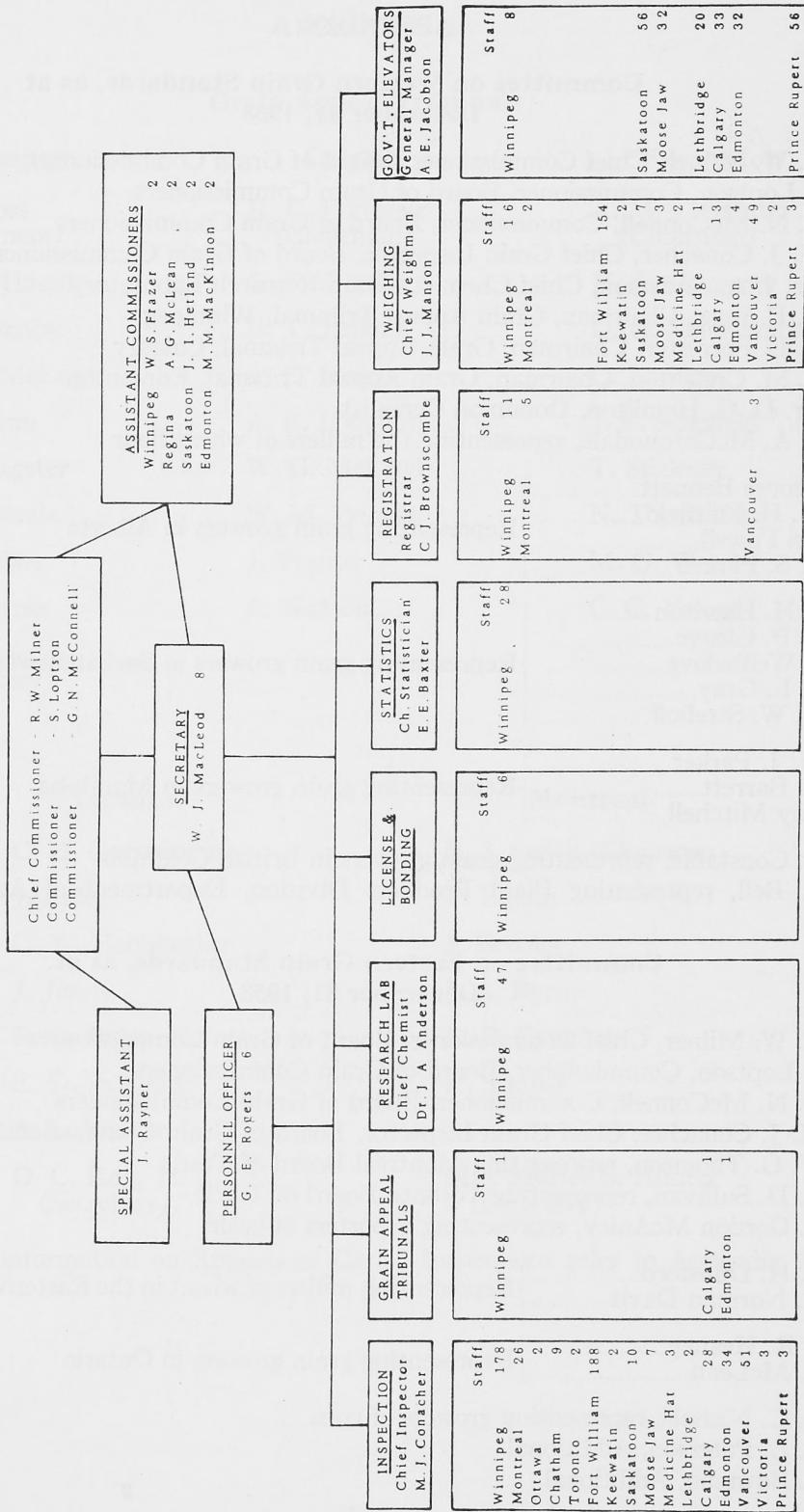
S. LOPTSON,
Commissioner,

W. J. MacLEOD,
Secretary

GEO. N. McCONNELL,
Commissioner

**BOARD OF GRAIN COMMISSIONERS
FOR CANADA**

BOARD OF GRAIN COMMISSIONERS



TRADE AND COMMERCE

APPENDIX A

Committee on Western Grain Standards, as at
December 31, 1958

R. W. Milner, Chief Commissioner, Board of Grain Commissioners
 S. Loptson, Commissioner, Board of Grain Commissioners
 G. N. McConnell, Commissioner, Board of Grain Commissioners
 M. J. Conacher, Chief Grain Inspector, Board of Grain Commissioners
 Dr. J. A. Anderson, Chief Chemist, Grain Research Laboratory
 D. E. Ross, Chairman, Grain Appeal Tribunal, Winnipeg
 R. E. Forrester, Chairman, Grain Appeal Tribunal, Calgary
 A. M. Creighton, Chairman, Grain Appeal Tribunal, Edmonton
 Dr. D. G. Hamilton, Dominion Cerealist
 L. A. McCorquodale, representing the millers of wheat flour

George Bennett.....
 W. H. Fairfield.....
 Uri Powell.....
 B. S. Plumer.....} Representing grain growers in Alberta

J. H. Harrison.....
 A. P. Gleave.....
 J. Wellbelove.....
 L. L. Gray.....
 N. W. Strelloff.....} Representing grain growers in Saskatchewan

W. J. Parker.....
 R. Barrett.....
 Ray Mitchell.....} Representing grain growers in Manitoba

G. Constable, representing grain growers in British Columbia
 L. Bell, representing Plant Products Division, Department of Agric.

Committee on Eastern Grain Standards, as at
December 31, 1958

R. W. Milner, Chief Commissioner, Board of Grain Commissioners
 S. Loptson, Commissioner, Board of Grain Commissioners
 G. N. McConnell, Commissioner, Board of Grain Commissioners
 M. J. Conacher, Chief Grain Inspector, Board of Grain Commissioners
 W. G. Thomson, representing Montreal Board of Trade
 E. D. Sullivan, representing Toronto Board of Trade
 C. Gordon McAuley, representing exporters of grain

F. H. Dunsford..... } Representing millers of wheat in the Eastern Division
 H. Norman Davis..... }

J. R. Heaney..... } Representing grain growers in Ontario
 A. McLean..... }

G. C. Nichols, representing growers of corn
 E. B. Paterson, Additional
 A. Bowman, Additional

BOARD OF GRAIN COMMISSIONERS

APPENDIX B

Grain Appeal Tribunals

Winnipeg	Calgary	Edmonton
D. E. Ross (Chairman)	R. E. Forrester (Chairman)	A. M. Creighton (Chairman)
J. E. G. Hasell	G. R. Deeton	H. A. Haggarty
J. F. Lazenby	B. T. Jenkins	D. G. MacKeracher
Wm. E. McLeod	A. E. Jones	C. E. Sage
G. I. Rocan	A. E. Longhurst	J. F. Schofield
E. A. Sangster	W. G. McLeod	T. Stickney
R. C. Sproule	W. M. Pringle	N. Topolnitsky
V. J. Stubbs	J. Tranter	M. G. Wood
G. A. Turner	A. Watson	C. C. Young
N. Kawka (Secretary)		

Toronto

C. H. Coatsworth
J. Elder
C. W. Heimbecker
J. Jervis
R. C. Pratt
E. D. Sullivan
A. L. Walker
D. C. Kay, Jr. (Secretary)

Montreal

P. J. Smith (Chairman)
P. Blouin
S. Brooks
J. A. Byrne
E. B. Paterson
R. Strauss
Mrs. Muriel B. Hunter (Secretary)

For information on Appeals of Carlot Inspections refer to Appendix E,
Table E-7.

APPENDIX C

Licence and Bonding Branch

Licences are issued by the Board under the provisions of Section 79 of the Canada Grain Act which section also provides that every applicant for a licence shall furnish security by bond or otherwise for the due performance by the licensee of all obligations imposed upon him by the Act.

The Act provides that no railway company or vessel shall receive any Western grain from any elevator or discharge any such grain into any elevator unless such elevator is licensed.

The Act also provides that, except for contracts for the purchase of grain the consideration payable under which is to be paid in full in cash at the time of the making thereof or contracts for the purchase of grain made on the premises of a recognized grain exchange by or through brokers who are members of such exchange, no person in the Western division may make any contract for the purchase of Western grain by reference to any grade name nor act on behalf of any other person in making such contract on a commission basis, unless he is licensed under the Canada Grain Act as a grain dealer, track buyer or grain commission merchant.

During the crop year 1957-58, 5,523 licences were issued to 106 firms and individuals to handle grain under the Canada Grain Act, or seventeen less than in the previous crop year. In addition, country elevator licensees were authorized to use 389 off-site grain storage buildings, comprising flour sheds, coal sheds, skating rinks and other buildings.

On July 31, 1958, with 5,460 elevator licences in force and 367 buildings authorized for supplementary storage, the total licensed storage capacity was 622,108,060 bushels in elevators, and 14,551,690 bushels in special storage annexes to country elevators. In addition, 49 Track Buyers', Commission Merchants' and Grain Dealers' licences were also in force. The following table gives a comparative statement of numbers and classes of licences in force and storage capacity:

Kind of Licence	Licences in force July 31		Licensed storage capacity July 31	
	1958	1957	1958	1957
Country Elevators.....	5,348	5,360	369,493,750	360,886,950
Supplementary Annexes to Country Elevators.....	*	*	14,551,690	15,142,090
Terminals and Mill Elevators.....	81	78	158,312,010	158,171,010
Eastern Elevators.....	31	30	94,302,300	94,102,300
Track Buyers, Commission Merchants and Grain Dealers.....	49	50	†	†
Totals.....	5,509	5,518	636,659,750	628,302,350

*367 buildings at July 31, 1958, and 403 buildings at July 31, 1957.

†These licences do not cover grain storage facilities.

During the crop year, fourteen elevator licences were cancelled, two on account of licensee changing class of operation, five destroyed by fire, two dismantled by licensees, three converted into annexes and two because licensee defaulted. The authorities covering twenty-two supplementary annexes were also cancelled.

BOARD OF GRAIN COMMISSIONERS

Sixty-seven country elevator licences were suspended by the Board for varying periods during rehabilitation and reconstruction of buildings. Fifty-one of these were subsequently reinstated, nine were cancelled and seven were still under suspension at July 31, 1958.

Guarantee bonds in the amount of \$29,674,756.50 executed by fifteen approved surety companies were deposited with the Board as security under Section 79 of the Canada Grain Act to cover operations of licensees during 1957-58. Two licensees deposited negotiable Government bonds with a par value of \$2,000 in lieu of furnishing the usual form of surety bonds.

At December 1, 1958, at which date essentially all licences were issued for the 1958-59 crop year, there were 5,433 elevator licences in force. In addition, 247 buildings other than elevators were authorized for supplementary storage. The total licensed storage capacity as at December 1, 1958, was 626,090,050 bushels in elevators and 12,991,550 bushels in grain storage buildings other than licensed elevators, or a total increase of 6,889,850 bushels since December 1, 1957. The total licensed storage capacity by provinces is: Manitoba, 60.4 million; Saskatchewan, 218.2; Alberta, 143.4; British Columbia, 26.9; Ontario 153.2; and Quebec and the Maritimes, 36.9 million bushels.

Table C-1.—Number and Kind of Licences Issued and Licensed Storage Capacity, as at December 1st each year for the Past Five Years

Kind of Licence	1958	1957	1956	1955	1954
NUMBER OF LICENCES					
Public Country Elevator.....	5,314	5,343	5,354	5,369	5,352
Private Country Elevator.....	8	10	9	10	10
Mill Elevator.....	35	33	32	33	36
Public Terminal Elevator.....	—	—	5	5	6
Semi-Public Terminal Elevator.....	40	40	34	35	34
Private Terminal Elevator.....	5	5	5	5	7
Eastern Elevator.....	31	30	30	30	29
Track Buyer.....	22	21	21	21	21
Commission Merchant.....	24	23	23	25	25
Grain Dealer.....	5	5	5	7	8
Totals.....	5,484	5,510	5,518	5,540	5,528
LICENSED CAPACITY					
thousands of bushels					
Public Country Elevator.....	373,357	364,661	356,263	343,953	332,454
Grain Storage Buildings.....	12,992	14,953	15,080	8,522	5,369
Private Country Elevator.....	240	369	337	349	349
Mill Elevator.....	13,671	13,513	13,451	13,525	13,429
Public Terminal Elevator.....	—	—	17,100	17,100	18,350
Semi-Public Terminal Elevator.....	137,524	137,524	118,774	116,624	112,873
Private Terminal Elevator.....	7,070	7,070	7,070	7,070	7,295
Eastern Elevator.....	94,227	94,102	94,102	92,182	90,845
Totals.....	639,081	632,192	622,177	599,325	580,964

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Table C-2.—Licensed Elevators and Storage as at December 1, 1958.

Kind of Elevator	Ontario	Mani-toba	Saskat-chewan	Alberta	British Colum-bia	Quebec and Mari-times	Totals
NUMBER OF ELEVATORS							
Public Country.....	2	696	2,910	1,688	18	—	5,314
Private Country.....	—	2	1	5	—	—	8
Mill.....	3	8	6	9	9	—	35
Public Terminal.....	—	—	—	—	—	—	—
Semi-Public Terminal.....	24	2	2	3	9	—	40
Private Terminal.....	2	2	—	1	—	—	5
Eastern.....	19	—	—	—	—	12	31
Totals.....	50	710	2,919	1,706	36	12	5,433
STORAGE CAPACITY							
Public Country.....	65	48,849	195,572	126,839	2,032	—	373,357
†Grain Storage Buildings.....	1,400	140	6,644	4,808	—	—	12,992
Private Country.....	—	45	32	163	—	—	240
Mill.....	1,480	2,255	4,915	4,049	972	—	13,671
Public Terminal.....	—	—	—	—	—	—	—
Semi-Public Terminal.....	90,517	6,000	11,000	6,100	23,907	—	137,524
Private Terminal.....	2,435	3,145	—	1,490	—	—	7,070
Eastern.....	57,286	—	—	—	—	36,941	94,227
Totals.....	153,183	60,434	218,163	143,449	26,911	36,941	639,081

†Off-site storage.

Collection of One Per cent Levy

The collection during the crop year 1957-58 of the one per cent levy made by this office under provisions of the Prairie Farm Assistance Act is recorded at \$6,114,474.50, a decrease of \$91,388.04 from collections during the previous crop year.

**Table C-3.—Amounts Collected and Grain Purchased under the One Per Cent Levy
Prairie Farm Assistance Act, Crop Year 1957-58**

Province	Wheat	Oats	Barley	Rye	Total
	\$	\$	\$	\$	\$
Manitoba.....	541,703.54	89,349.74	165,175.94	8,104.01	804,333.23
Saskatchewan.....	3,139,079.05	108,160.05	427,162.57	32,146.56	3,706,548.23
Alberta.....	1,162,039.31	62,536.21	360,434.28	18,500.16	1,603,509.96
Totals.....	4,842,821.90	260,046.00	952,772.79	58,750.73	6,114,391.42
Amount not allocated to provinces.....					83.08
Total collections Aug. 1, 1957 to July 31, 1958.....					6,114,474.50
GRAIN PURCHASES					
	thousands of bushels				
Manitoba.....	42,285	19,259	19,453	946	81,943
Saskatchewan.....	244,713	24,088	51,576	3,881	324,258
Alberta.....	90,415	14,736	45,578	2,244	152,973
Totals.....	377,413	58,083	116,607	7,071	559,174

BOARD OF GRAIN COMMISSIONERS

APPENDIX D

Registration Branch

C. J. BROWNSCOMBE, Registrar

Section 127 of the Canada Grain Act requires the operators or managers of Public terminal, Semi-Public terminal and Eastern Elevators to issue warehouse receipts for all grain taken into store. Regulations No. 1 and No. 2 made by the Board under the provisions of section 15 (22) of the Canada Grain Act require that all such warehouse receipts be registered with the Board as to grade and quantity at the time of issue, and that these warehouse receipts be surrendered to the Board for registration for cancellation when the grain which they represent has been shipped out.

During the Crop Year 1957-58, registration service was provided for licensees of 40 semi-public terminal elevators and 31 eastern elevators at the offices maintained by the Board at Winnipeg, Montreal and Vancouver.

Table D-1 of this appendix presents the total bushels, by grains, for which warehouse receipts were registered against grain received into store and registered for cancellation against grain shipped, together with the averages of these handlings for the past ten crop years for comparison. Registration service was also provided to licensees for the registration and cancellation of splits, consolidations, grade adjustments and re-issue of warehouse receipts to facilitate documentation in connection with the handling of grain. An increase in this type of work was noted at Vancouver in line with the general increased movement of grain at that point, but at other points it remained at normal levels.

Records were maintained for each licensee in both the Eastern and Western Divisions, by grade, to show the total quantities registered, registered for cancellation or still outstanding each day, while a separate series of records was maintained to provide a complete history of the registration and cancellation particulars for all warehouse receipts issued by these licensees. Certified statements of outstanding warehouse receipt grade totals and of the handlings for the non-mixing grades of wheat and other relevant data, were issued as required for use in connection with the annual weighover of stocks of grain as carried out by Board officials at all terminal and eastern elevators.

Total bushels registered and registered for cancellation for all grains for elevators in the Western Division show increases of 4.6 million and 30.1 million bushels respectively, over those of the previous crop year, and increases of 51.3 million and 63.3 million bushels respectively, over those of the ten-year average. While the total bushels registered against unloads of grain for all elevators in the Eastern Division was slightly less than that of the previous crop year, the quantities registered for cancellation against shipments of grain show an increase of 21.8 million bushels, and increases of 30.8 million and 42.5 million bushels respectively, were recorded in both categories when compared to the ten-year averages.

Fees for registration service were charged at the rate of 4 cents a thousand bushels for registration and for registration for cancellation in the Western Division, and one cent a thousand bushels for similar service in the Eastern Division. The overall increase in volume of handlings for registration for both Eastern and Western Divisions is reflected in the total fees collected for registration service of \$51,749.24 as compared to the ten-year average of \$46,436.49.

TRADE AND COMMERCE

Table D-1.—Warehouse Receipt Registrations for Primary and Transfer Receipts and Shipments at Semi-Public Terminal Elevators and Eastern Elevators, by Area and Grain, Crop Year 1957-58 and 10-year Average.

Area	Grain	Crop Year 1957-58		10-Year Average, 1947-4 to 1956-57	
		Registered	Registered for Cancellation	Registered	Registered for Cancellation
—thousands of bushels—					
WESTERN DIVISION— Winnipeg, including Lakehead and Churchill.....	Wheat.....	193,677	196,590	200,937	196,434
	Oats.....	54,435	56,518	67,948	69,769
	Barley.....	72,724	72,603	70,561	69,516
	Flax.....	10,103	10,169	9,318	9,060
	Rye.....	5,302	4,989	11,098	10,976
	Mixed Grain.....	344	227	888	564
	Corn.....	—	—	30	40
	Other Grains.....	179	206	119	127
INTERIOR ELEVATORS— Calgary, Edmonton, Lethbridge, Moose Jaw and Saskatoon.....	Wheat.....	1,422	2,646	5,500	4,313
	Oats.....	688	700	423	457
	Barley.....	2,250	1,984	1,595	1,596
	Flax.....	98	102	257	258
	Rye.....	5	30	42	39
	Mixed Grain.....	3	27	2	25
	Corn.....	2	9	16	13
	Other Grains.....	3,690	3,117	665	570
VANCOUVER AND PRINCE RUPERT AREA—	Wheat.....	130,573	130,819	85,825	84,759
	Oats.....	1,984	3,204	2,131	3,129
	Barley.....	30,339	30,538	11,605	11,527
	Flax.....	6,151	5,926	561	533
	Rye.....	1,430	1,359	69	66
	Mixed Grain.....	16	7	42	52
	Corn.....	—	—	284	283
	Other Grains.....	6,159	6,050	425	423
WESTERN DIVISION— All Points—	Wheat.....	325,672	330,055	292,262	285,506
	Oats.....	57,107	60,422	70,502	73,355
	Barley.....	105,313	105,125	83,761	82,639
	Flax.....	16,352	16,197	10,136	9,851
	Rye.....	6,737	6,378	11,209	11,081
	Mixed Grain.....	363	261	932	641
	Corn.....	2	9	330	336
	Other Grains.....	10,028	9,373	1,209	1,120
Totals—All Grains.....		521,574	527,820	470,341	464,529
EASTERN DIVISION—	Wheat.....	303,144	308,057	292,691	287,297
	Oats.....	47,127	46,986	42,576	42,465
	Barley.....	80,986	81,283	74,442	74,045
	Flax.....	31,718	31,753	15,222	15,168
	Rye.....	2,810	2,920	8,629	8,604
	Mixed Grain.....	551	603	527	507
	Corn.....	8,836	9,419	16,638	16,747
	Screenings.....	2,218	2,289	1,213	1,214
	Peas.....	299	299	69	70
	Soybeans.....	6,542	6,304	2,446	2,438
	Buckwheat.....	449	552	306	296
	Other Grains.....	1,099	1,099	269	267
Totals—All Grains.....		485,779	491,564	455,028	449,118

BOARD OF GRAIN COMMISSIONERS

APPENDIX E

Inspection Branch

M. J. CONACHER, Chief Grain Inspector

Under Section 32 of the Canada Grain Act, the Grain Inspection Branch in the Western Division procures samples and establishes grades on all carlots of grain enroute from country points to terminal and mill elevators, at the primary inspection points of Winnipeg, Calgary and Edmonton. Final grades of carlots of grain unloaded into terminal and mill elevators are established on samples drawn during unloading by officials of the inspection branch at the Lakehead, Pacific Coast, Churchill, and at the interior points Winnipeg, Calgary, Edmonton, Moose Jaw, Saskatoon, Lethbridge and Medicine Hat. Also, all grain shipped from terminal and mill elevators is officially sampled and inspected.

In the Eastern Division, sampling and grading service is provided on request at Chatham and Toronto for Eastern grown grain. At Montreal, Quebec, Sorel, Three Rivers, St. John and Halifax, grain loaded into vessels for export is sampled and the grades are checked.

Grades of all grain in store in all terminal and eastern elevators weighed over during the crop year are verified by officials of the Inspection Branch.

There were four main factors that affected the grades of grain produced in Western Canada in 1957. These were drought that occurred in southern areas, early fall frost that occurred over large areas, hail that occurred in scattered patterns, and unfavourable weather conditions at harvest time in some areas.

The crop of Red Spring Wheat included a low proportion of Manitoba No. 1 Northern (only 0.3% of total inspections). 21.8% of shipments graded Manitoba No. 2 Northern. The grade of Manitoba No. 3 Northern predominated over a large area (34.2% of total inspections), and many districts produced Manitoba No. 4 Northern and No. 5 Wheat as a result of damage from frost and weathering at harvest time. There was a significant increase in the variety Selkirk of Red Spring Wheat; very little of this variety graded higher than Manitoba No. 3 Northern because generally it did not mature well.

Amber Durum Wheat followed a pattern of grades somewhat similar to that of Red Spring Wheat. Only 0.2% of shipments were graded No. 1 Canada Western Amber Durum; 18.2% graded No. 2 Canada Western Amber Durum. The predominating grade of shipments was No. 3 Canada Western Amber Durum (27.0%), closely followed by the grade of No. 4 Canada Western Amber Durum (26.3%), and Extra No. 4 Canada Western Amber Durum (22.9%).

Of barley shipped from Western Canada during the crop year 33.1% was graded No. 1 Feed, mainly on account of shrunken kernels caused by drought, early fall frosts, and unfavourable harvest weather. The unfavourable weather at harvest time caused loosening of hulls of barley so that considerable peeling occurred in handling, thus reducing the grade of much barley that otherwise would have been eligible for higher grades.

The 1957 crop of rye showed a decline in the content of ergot; only 3.8% of shipments were graded Ergoty Rye, as compared to 10.1% in the crop year 1956-57, and 5.9% in the crop year 1955-56.

Inspection of oats included 58.0% of No. 1 Feed, compared to 48.1% in the previous year. Only 12.2% of oats shipped were graded No. 2, No. 3 and Extra No. 3 Canada Western, compared to 26.4% in the 1956-57 crop year. The main damage to oats was caused by frost and weathering at harvest time.

TRADE AND COMMERCE

Rapeseed and Mustard Seed, which are comparatively new oil bearing seeds produced in Western Canada, were generally of high quality. 3,79 carlots of rapeseed inspected constituted a record high quantity of this seed. Mustard Seed shipments declined to 370 cars, from 580 cars in the previous crop year.

Safflower Seed was produced in Western Canada in substantial quantities for the first time; 59 carlots were inspected during the crop year.

Inspection of flaxseed showed a decline to 3.5% from 5.4% of totals for the crop year 1956-57, but remained well above the ten-year average of 2.3% of total carlots inspected.

20,427 samples submitted by country elevator operators and farmer "subject to grade and dockage" were graded during the crop year 1957-58.

The early crops in Eastern Canada in 1957 suffered from damage due to heavy rains at harvest time. A higher proportion than usual of winter wheat was graded as low as No. 3 Canada Eastern Winter. The disease known as "scab" was a more conspicuous degrading factor than for several years.

Only about 50% of the barley crop was of high enough quality to be admitted into the top grades normally accepted by maltsters.

An unusually wet growing season caused losses, both in yield and in quality, to much of the 1957 crop of corn in Southwestern Ontario. Wet weather in the fall retarded ripening and natural drying of corn; more corn than usual was dried artificially.

The 1957 crop of soybeans in Ontario withstood the wet growing season best. The bulk of the crop was graded No. 1 Canada Soybeans, but some lots had high moisture content when delivered by the growers and there was some loss of grade from heating during storage through the winter.

As the harvesting of pea beans got underway in early September, 1957, the quality, condition and colour of this crop was excellent. However, when only about 15% of the pea beans had been harvested, wet weather intervened and the balance of the crop suffered considerable damage from weathering and resultant discolouration.

WESTERN DIVISION

Table E-1.—Primary Carlot Inspections by Grains, Crop Year 1957-58, compared with 1956-57 and 10-year Average 1947-48 to 1956-57

	10-Year Average	Carlots		10-Year Average	1957-58	1956-57
			Percent of total			
Wheat.....	195,904	200,030	198,796	67.3	67.3	66.5
Oats.....	32,962	21,704	20,868	11.3	7.3	7.0
Barley.....	47,680	55,895	55,168	16.4	18.9	18.5
Rye.....	6,307	3,655	3,339	2.2	1.2	1.1
Flaxseed.....	6,790	10,579	16,257	2.3	3.5	5.4
Mixed Grain.....	520	145	241	0.2	0.1	0.1
Corn.....	166	133	182	0.1	0.1	0.1
Buckwheat.....	75	72	122	*	*	*
Screenings.....	403	443	471	0.1	0.1	0.2
Rapeseed.....	335	3,796	2,375	0.1	1.3	0.8
Sunflower Seeds.....	—	2	—	—	*	—
Peas.....	92	251	234	*	0.1	0.1
Mustard Seed.....	60	370	580	*	0.1	0.2
Sample Grain.....	—	—	2	—	—	*
Safflower Seed.....	—	59	—	—	*	—
Sorghum.....	—	3	—	—	*	—
Totals.....	291,294	297,137	298,635	100.0	100.0	100.0

*Less than 0.05%

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Table E-2.—Primary Carlot Inspections by Points, Crop Year 1957-58, compared with 1956-57 and 10-Year Average 1947-48 to 1956-57

	10-Year Average	1957-58	1956-57	10-Year Average	1957-58	1956-57
Winnipeg.....	200,738	168,613	188,149	68.9	56.7	63.1
Calgary.....	37,472	57,542	46,993	12.9	19.4	15.7
Edmonton.....	31,092	46,080	39,526	10.6	15.5	13.2
Moose Jaw.....	4,703	3,897	4,454	1.6	1.3	1.5
Saskatoon.....	7,023	8,071	7,304	2.4	2.7	2.4
Lethbridge.....	180	385	628	0.1	0.1	0.2
Medicine Hat.....	2,862	1,958	1,796	1.0	0.7	0.6
Vancouver.....	1,798	649	585	0.6	0.2	0.2
Churchill.....	5,426	9,942	9,200	1.9	3.4	3.1
Totals.....	291,294	297,137	298,635	100.0	100.0	100.0

Table E-3.—Primary Carlot Inspections, Crop Year 1957-58, by Grain and Grades

Grade	Carlots	Percentage	Percentage of Total Wheat Inspections
WHEAT			
1 Manitoba Northern.....	659	0.3	—
2 Manitoba Northern.....	40,897	21.8	—
3 Manitoba Northern.....	64,170	34.2	—
4 Manitoba Northern.....	43,916	23.4	—
No. 4 Special.....	30	*	—
No. 5.....	22,310	11.9	—
No. 5 Special.....	8	*	—
No. 6.....	6,688	3.6	—
Feed.....	193	0.1	—
Sample.....	193	0.1	—
Smutty.....	133	0.1	—
Rejected.....	3,477	1.8	—
Tough.....	4,977	2.6	—
Damp.....	184	0.1	—
Condemned.....	4	*	—
Broken Red Spring.....	3	*	—
Total Red Spring Wheat.....	187,842	100.0	93.9
2 Canada Western Garnet.....	—	—	—
3 Canada Western Garnet.....	8	34.8	—
4 Canada Western Garnet.....	5	21.7	—
Smutty Canada Western Garnet.....	—	—	—
Rejected Canada Western Garnet.....	3	13.1	—
Tough Canada Western Garnet.....	7	30.4	—
Total Garnet Wheat.....	23	100.0	*
1 Canada Western Amber Durum.....	27	0.2	—
2 Canada Western Amber Durum.....	2,118	18.2	—
3 Canada Western Amber Durum.....	3,135	27.0	—
Extra 4 Canada Western Amber Durum.....	2,659	22.9	—
4 Canada Western Amber Durum.....	3,059	26.3	—
5 Canada Western Amber Durum.....	332	2.9	—
6 Canada Western Amber Durum.....	19	0.2	—
Smutty Canada Western Amber Durum.....	9	0.1	—
Rejected Canada Western Amber Durum.....	174	1.5	—
Tough Canada Western Amber Durum.....	29	0.2	—
Damp Canada Western Amber Durum.....	—	—	—
Sample Canada Western Amber Durum.....	55	0.5	—
Total Amber Durum Wheat.....	11,616	100.0	5.8

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Table E-3.—Primary Carlot Inspections, Crop Year 1957-58, by Grain and Grades—
Continued

Grade	Carlots	Percentage	Percentage of Total Wheat Inspections
WHEAT—concluded			
1 Canada Western Soft White Spring.....	5	2.3	—
2 Canada Western Soft White Spring.....	157	74.8	—
3 Canada Western Soft White Spring.....	37	17.7	—
4 Canada Western Soft White Spring.....	3	1.4	—
Tough Canada Western Soft White Spring.....	5	2.3	—
Rejected Canada Western Soft White Spring.....	1	0.5	—
Sample Canada Western Soft White Spring.....	2	1.0	—
Total Soft White Spring Wheat.....	210	100.0	0.1
1 Canada Western Mixed Wheat.....	5	4.1	—
2 Canada Western Mixed Wheat.....	2	1.6	—
3 Canada Western Mixed Wheat.....	60	48.8	—
4 Canada Western Mixed Wheat.....	27	21.9	—
5 Canada Western Mixed Wheat.....	16	13.0	—
6 Canada Western Mixed Wheat.....	6	4.9	—
Smutty Canada Western Mixed Wheat.....	1	0.8	—
Rejected Canada Western Mixed Wheat.....	4	3.3	—
Tough Canada Western Mixed Wheat.....	2	1.6	—
Total Mixed Wheat.....	123	100.0	0.1
1 Alberta Red Winter.....	43	19.9	—
2 Alberta Winter.....	127	58.8	—
3 Alberta Winter.....	17	7.9	—
4 Alberta Winter.....	3	1.4	—
Smutty Alberta Winter.....	24	11.1	—
Rejected Alberta Winter.....	2	0.9	—
Total Alberta Winter Wheat.....	216	100.0	0.1
Total All Wheats.....	200,030	—	100.0

Grade	Carlots	Percentage
OATS		
2 Canada Western.....	41	0.2
Extra 3 Canada Western.....	148	0.7
3 Canada Western.....	2,446	11.3
Extra 1 Feed.....	5,541	25.6
1 Feed.....	12,593	58.0
2 Feed.....	437	2.0
3 Feed.....	101	0.4
Mixed Feed Oats.....	4	*
Rejected Oats.....	84	0.4
Sample Oats.....	65	0.3
Tough Oats.....	237	1.1
Damp Oats.....	1	*
Mixed Feed Oats Groats.....	4	*
Condemned Oats.....	2	*
Total Oats.....	21,704	100.0

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**Table E-3.—Primary Carlot Inspections, Crop Year 1957-58, by Grain and Grades—
Continued**

Grade	Carlots	Percentage
BARLEY		
1 Canada Western Six Row.....	14	*
2 Canada Western Six Row.....	2,421	4.3
3 Canada Western Six Row.....	14,607	26.1
4 Canada Western Six Row.....	2,496	4.5
1 Canada Western Two Row.....	4	*
2 Canada Western Two Row.....	187	0.4
3 Canada Western Two Row.....	4,624	8.3
1 Feed.....	18,485	33.1
Extra Two Feed.....		
2 Feed.....	9,338	16.7
3 Feed.....	797	1.4
Rejected.....	572	1.0
Sample.....	60	0.1
Tough.....	2,239	4.0
Damp.....	49	0.1
Condemned Barley.....	2	*
Total Barley.....	55,895	100.0
RYE		
1 Canada Western.....	41	1.1
2 Canada Western.....	1,415	38.7
3 Canada Western.....	1,657	45.4
4 Canada Western.....	264	7.2
Ergoty.....	139	3.8
Rejected.....	18	0.5
Sample.....	5	0.2
Tough.....	114	3.1
Damp.....	1	*
Ergot and Other Grains.....	1	*
Total Rye.....	3,655	100.0
FLAXSEED		
1 Canada Western.....	6,074	57.4
2 Canada Western.....	3,888	36.8
3 Canada Western.....	361	3.4
4 Canada Western.....	32	0.3
Rejected.....	55	0.5
Sample.....	73	0.7
Tough.....	94	0.9
Damp.....	2	*
Total Flaxseed.....	10,579	100.0
MIXED GRAIN		
1 Canada Western.....	22	15.2
2 Canada Western.....	16	11.0
3 Canada Western.....	50	34.5
4 Canada Western.....	4	2.8
Rejected.....	14	9.7
Sample.....	27	18.6
Tough.....	11	7.5
Damp.....	1	0.7
Total Mixed Grain.....	145	100.0

TRADE AND COMMERCE

Table E-3.—Primary Carlot Inspections, Crop Year 1957-58, by Grain and Grades—
Continued

Grade	Carlots	Percentage
CORN		
1 Canada Western Yellow.....	1	0.7
2 Canada Western Yellow.....	13	9.8
3 Canada Western Yellow.....	23	17.3
4 Canada Western Yellow.....	19	14.3
5 Canada Western Yellow.....	7	5.2
Tough.....	2	1.5
Sample.....	1	0.8
U.S.A. Origin.....	67	50.4
Total Corn.....	133	100.0
MUSTARD SEED		
1 Canada Western Yellow.....	4	1.1
2 Canada Western Yellow.....	4	1.1
3 Canada Western Yellow.....	1	0.3
1 Canada Western Oriental.....	216	58.4
1 Canada Western Brown.....	22	5.9
Sample Canada Western Yellow.....	1	0.2
Others.....	122	33.0
Total Mustard Seed.....	370	100.0
RAPESEED		
Canada.....	3,298	86.9
2 Canada.....	148	3.9
3 Canada.....	17	0.5
Sample Canada.....	12	0.3
Tough.....	305	8.0
Damp.....	16	0.4
Total Rapeseed.....	3,796	100.0
SCREENINGS		
1 Feed.....	8	1.9
Uncleaned.....	255	57.6
Refuse.....	124	27.9
Sample.....	56	12.6
Total Screenings.....	443	100.0
Sunflower Seeds.....	2	—
Buckwheat.....	72	—
Peas.....	251	—
Safflower Seed.....	59	—
Sorghum.....	3	—
Grand Total.....	297,137	—

*Less than 0.05%

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Table E-4.—Carlots of Tough, Damp and Straight Grain Inspected at Primary Inspection Points, Crop Year 1957-58

Grain	Tough	Damp	Tough and Damp	Straight	Total
Wheat.....	5,020	184	5,204	194,826	200,030
Oats.....	237	1	238	21,466	21,704
Barley.....	2,239	49	2,288	53,607	55,895
Rye.....	114	1	115	3,540	3,655
Flaxseed.....	94	2	96	10,483	10,579
Others.....	318	17	335	4,939	5,274
All Grains.....	8,022	254	8,276	288,861	297,137
PERCENTAGE OF TOTAL					
Wheat.....	% 2.5	% 0.1	% 2.6	% 97.4	% 100.0
Oats.....	1.1	*	1.1	98.9	100.0
Barley.....	4.0	0.1	4.1	95.9	100.0
Rye.....	3.1	*	3.1	96.9	100.0
Flaxseed.....	0.9	*	0.9	99.1	100.0
Others.....	6.0	0.4	6.4	93.6	100.0
All Grains.....	2.7	0.1	2.8	97.2	100.0

*Less than 0.05%.

Table E-5.—Number of Two Pound Samples "Subject to Grade and Dockage" Inspected Crop Year 1957-58 Compared with the Crop Year 1956-57

Point	1957-58	1956-57	Number of Samples
Winnipeg.....	15,036	23,183	
Calgary.....	1,754	2,148	
Edmonton.....	1,633	1,913	
Moose Jaw.....	386	228	
Saskatoon.....	1,047	1,184	
Lethbridge.....	550	1,647	
Medicine Hat.....	21	60	
Totals.....	20,427	30,363	

Table E-6.—Carlots Re-inspected, Crop Year 1957-58

Point	In-spected	Re-in-spected	Un-changed	Grades Raised	Grades Lowered	Dockage Raised	Dockage Lowered	Number of Carlots
Winnipeg.....	168,613	8,917	3,691	2,398	108	197	2,523	
Calgary.....	57,542	5,310	2,051	1,722	83	266	1,188	
Edmonton.....	46,080	6,538	2,428	1,395	71	296	2,348	
Saskatoon.....	8,071	157	132	25	—	—	—	
Moose Jaw.....	3,897	228	202	22	4	—	—	
Medicine Hat.....	1,958	86	42	27	17	—	—	
Lethbridge.....	385	396	395	1	—	—	—	
Vancouver.....	649	23	15	8	—	—	—	
Churchill.....	9,942	—	—	—	—	—	—	
Totals.....	297,137	21,655	8,956	5,598	283	759	6,059	

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Table E-6.—Carlots Re-inspected, Crop Year 1957-58—Continued

Point	In-spected	Re-in-spected	Un-changed	Grades Raised	Grades Lowered	Dockage Raised	Dockage Lowered
	%	%	%	%	%	%	%
Percentage of Re-inspections							
Winnipeg.....	—	100	41.4	26.9	1.2	2.2	28.3
Calgary.....	—	100	38.6	32.4	1.6	5.0	22.4
Edmonton.....	—	100	37.1	21.4	1.1	4.5	35.9
Saskatoon.....	—	100	84.1	15.9	—	—	—
Moose Jaw.....	—	100	88.6	9.6	1.8	—	—
Medicine Hat.....	—	100	48.8	31.4	19.8	—	—
Lethbridge.....	—	100	99.7	0.3	—	—	—
Vancouver.....	—	100	65.2	34.8	—	—	—
Churchill.....	—	100	—	—	—	—	—
Totals.....	—	100	41.4	25.8	1.3	3.5	28.0
Percentage of Total Inspections							
Winnipeg.....	%	%	%	%	%	%	%
Calgary.....	100	5.3	2.2	1.4	0.1	0.1	1.5
Edmonton.....	100	9.3	3.6	3.0	0.1	0.5	2.1
Saskatoon.....	100	14.2	5.3	3.0	0.2	0.6	5.1
Moose Jaw.....	100	1.9	1.6	0.3	—	—	—
Medicine Hat.....	100	5.9	5.2	0.6	0.1	—	—
Lethbridge.....	100	4.4	2.1	1.4	0.9	—	—
Vancouver.....	100	2.9	2.6	0.3	—	—	—
Churchill.....	100	3.5	2.3	1.2	—	—	—
Totals.....	100	7.3	3.0	1.9	0.1	0.3	2.0

Table E-7.—Summary of Carlot InspectionsAppealed, Crop Year 1957-58

Item	Winnipeg		Edmonton		Calgary		Total	
	Cars	Percent	Cars	Percent	Cars	Percent	Cars	Percent
Left as graded.....	501	94.9	455	85.7	643	90.3	1,599	90.3
Grades Raised.....	26	4.9	73	13.7	59	8.3	158	8.9
Grades Lowered.....	1	0.2	3	0.6	10	1.4	14	0.8
Totals.....	528	100.0	531	100.0	712	100.0	1,771	100.0
Total Cars Inspected.....							297,137	100.00
Total Appeals.....							1,771	0.59
Total Grades Changed.....							172	.05

Table E-8.—Vessel Shipments Inspected, Crop Year 1957-58

Grain	Fort William and Port Arthur	Vancouver	Victoria	Prince Rupert	Churchill	Total
	bu.	bu.	bu.	bu.	bu.	bu.
Wheat.....	177,063,935	129,887,849	2,170,410	—	18,290,685	327,412,879
Oats.....	52,184,398	2,256,692	—	—	56,750	54,497,840
Barley.....	74,464,388	19,702,692	—	10,562,860	—	104,729,940
Rye.....	4,602,519	1,358,838	—	—	—	5,961,357
Flaxseed.....	8,160,125	5,294,015	708,811	—	—	14,162,951
Buckwheat.....	91,730	—	—	—	—	91,730
*Sample Grain.....	293,627	—	—	—	—	293,627
*Screenings.....	3,167,895	140,582	—	—	137,000	3,445,477
*Canada Rapeseed.....	—	4,381,254	913,472	—	—	5,294,726
*Mustard Seed.....	—	705,859	—	—	—	705,859
*U.S.A. Mustard Seed.....	—	—	—	—	—	—
Mixed Grain.....	23,874	—	—	—	—	23,874
**Safflower Seed.....	—	111,733	—	—	—	111,733
Totals.....	320,052,491	163,839,514	3,792,693	10,562,860	18,484,435	516,731,993

*In bushels of 50 pounds.

**In bushels of 45 pounds.

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Table E-9.—Carlot Shipments ex Terminal Elevators Inspected, Crop Year 1957-58

Grain	Winnipeg	Fort William and Port Arthur	Calgary	Edmonton	Moose Jaw
Number of Carlots					
Wheat.....	693	1,021	526	261	673
Oats.....	361	2,261	22	172	154
Barley.....	308	1,136	990	44	16
Flaxseed.....	25	1,111	3	35	15
Rye.....	4	77	10	1	1
Mixed Grain.....	91	—	3	1	5
Corn.....	1	—	—	—	—
Buckwheat.....	1	29	—	—	—
Peas.....	60	—	—	—	—
Rapeseed.....	88	27	137	522	—
Screenings.....	351	3,790	203	28	77
Sample Grain.....	—	61	—	—	—
Totals.....	1,983	9,513	1,894	1,064	941
Grain	Saskatoon	Lethbridge	Medicine Hat	Vancouver, Victoria and Prince Rupert	Churchill
Wheat.....	774	70	2	598	—
Oats.....	95	4	3	292	—
Barley.....	8	1	—	154	—
Flaxseed.....	—	—	92	1	—
Rye.....	48	—	—	2	—
Mixed Grain.....	—	—	—	—	—
Corn.....	—	—	—	—	—
Buckwheat.....	—	—	—	—	—
Peas.....	—	—	—	—	—
Rapeseed.....	912	—	—	—	—
Mustard Seed.....	—	—	—	—	—
Screenings.....	672	5	1	1,789	48
Safflower Seed.....	—	—	—	1	—
Totals.....	2,509	80	98	2,837	48

EASTERN DIVISION

Table E-10.—Carlot Inspections Eastern Grain, Crop Year 1957-58, by Grains and Points

Grain	Montreal	Toronto	Chatham	Total
				Carlots
Wheat.....	107	454	2,302	2,863
Oats.....	—	10	19	29
Barley.....	1	4	204	209
Rye.....	—	—	43	43
Buckwheat.....	—	—	7	7
Corn.....	—	6	1,981	1,987
Beans.....	—	—	211	211
Soybeans.....	3	272	1,563	1,838
Totals.....	111	746	6,330	7,187

Table E-11.—Carlot Inspections Eastern Grain, Crop Year 1957-58, by Grains, Grades and Points

Grade		Montreal	Toronto	Chatham	Total
		Carlots			
WHEAT					
1 Canada Eastern White Winter.....	—	23	410	433	
2 Canada Eastern White Winter.....	107	291	936	1,334	
3 Canada Eastern White Winter.....	—	26	119	145	
4 Canada Eastern White Winter.....	—	1	3	4	
5 Canada Eastern White Winter.....	—	—	1	1	
1 Canada Eastern Mixed Winter.....	—	—	59	59	
2 Canada Eastern Mixed Winter.....	—	1	73	74	
3 Canada Eastern Mixed Winter.....	—	—	3	3	
Tough.....	—	89	595	684	
Smutty.....	—	4	12	16	
Infested.....	—	13	70	83	
Damp.....	—	1	—	1	
Sample.....	—	5	14	19	
Condemned.....	—	—	7	7	
Totals, Wheat.....	107	454	2,302	2,863	
OATS					
3 Canada Eastern.....	—	—	9	9	
4 Canada Eastern.....	—	—	2	2	
5 Canada Eastern.....	—	—	4	4	
Mixed Feed.....	—	10	—	10	
Tough.....	—	—	2	2	
Sample.....	—	—	2	2	
Totals, Oats.....	—	10	19	29	
BARLEY					
3 Canada Eastern Six Row.....	—	2	116	118	
4 Canada Eastern.....	1	—	54	55	
5 Canada Eastern.....	—	1	4	5	
Tough.....	—	—	25	25	
Damp.....	—	—	1	1	
Infested.....	—	—	2	2	
Sample.....	—	—	2	2	
Condemned.....	—	1	—	1	
Totals, Barley.....	1	4	204	209	
RYE					
2 Canada Eastern.....	—	—	10	10	
3 Canada Eastern.....	—	—	11	11	
4 Canada Eastern.....	—	—	1	1	
Tough.....	—	—	18	18	
Damp.....	—	—	1	1	
Ergoty.....	—	—	1	1	
Sample.....	—	—	1	1	
Totals, Rye.....	—	—	43	43	
BUCKWHEAT					
Tough.....	—	—	7	7	
Totals, Buckwheat.....	—	—	7	7	

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**Table E-11.—Carlot Inspections Eastern Grain, Crop Year 1957-58, By Grains,
Grades and Points—Concluded**

Grade	Montreal	Toronto	Chatham	Total
CORN				
Extra Dry 1 Canada Eastern Yellow.....	—	1	327	328
1 Canada Eastern Yellow.....	—	—	491	491
Extra Dry 2 Canada Eastern Yellow.....	—	—	121	121
2 Canada Eastern Yellow.....	—	—	242	242
Extra Dry 3 Canada Eastern Yellow.....	—	2	20	22
3 Canada Eastern Yellow.....	—	—	67	67
Extra Dry 4 Canada Eastern Yellow.....	—	2	5	7
4 Canada Eastern Yellow.....	—	—	7	7
Extra Dry 5 Canada Eastern.....	—	—	4	4
5 Canada Eastern Yellow.....	—	1	2	3
Tough.....	—	—	204	204
Damp.....	—	—	202	202
Moist.....	—	—	180	180
Wet.....	—	—	106	106
Infested.....	—	—	1	1
Sample.....	—	—	2	2
Totals, Corn.....	—	6	1,981	1,987
BEANS				
1 Canada Eastern Pea.....	—	—	55	55
2 Canada Eastern Pea.....	—	—	96	96
3 Canada Eastern Pea.....	—	—	39	39
Tough.....	—	—	21	21
Totals, Beans.....	—	—	211	211
SOYBEANS				
1 Canada Yellow.....	—	127	835	962
2 Canada Yellow.....	3	105	258	366
3 Canada Yellow.....	—	11	122	133
4 Canada Yellow.....	—	—	3	3
Tough.....	—	25	237	262
Damp.....	—	4	86	90
Moist.....	—	—	21	21
Sample.....	—	—	1	1
Totals, Soybeans.....	3	272	1,563	1,838
Totals, All Grains.....	111	746	6,330	7,187

Table E-12.—Cargo Inspections Eastern Grain, Crop Year 1957-58

Grain	St. John and Halifax	Montreal	Toronto	Chatham	Total
Wheat.....	bu. 18,643	bu. 747,330	bu. 259,226	bu. 1,572,985	bu. 2,598,184
Corn.....	—	—	—	1,291,753	1,291,753
Soybeans.....	28,560	56,000	346,848	2,504,221	2,935,629
Totals.....	47,203	803,330	606,074	5,368,959	6,825,566

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Table E-12A.—Cargo Inspections, Western Grain, Crop Year 1957-58

Grain	St. John and Halifax	Montreal	Toronto	Chatham	Total
Buckwheat.....	bu. 26,981	bu.	bu.	bu.	bu. 26,981
Flaxseed.....	2,162,507	491,047	—	—	2,653,554
Peas.....	1,000	—	—	—	1,000
Totals.....	2,190,488	491,047	—	—	2,681,535

Table E-13.—Inspections, Eastern Grain in Bins or Warehouses, Crop Year 1957-58

Grain	Montreal	Toronto	Chatham	Total
Wheat.....	bu. 3,000	bu.	bu.	bu. 3,000
Oats.....	739,051	—	1,200	740,251
Rye.....	—	—	200	200
Buckwheat.....	—	—	1,800	1,800
Corn.....	—	—	292	292
Beans.....	—	—	126,178	126,178
Totals.....	742,051	—	129,670	871,721

Table E-14.—Inward and Export Cargoes Sampled and Grade Checked, Crop Year 1957-58

	Montreal	Sorel	Three Rivers	Quebec	Halifax and St. John	Total
EASTERN GRAIN	bu.	bu.	bu.	bu.	bu.	bu.
Inward.....	4,065,642	—	—	—	394,412	4,065,642
Export.....	4,016,712	—	—	—	—	4,411,124
WESTERN GRAIN						
Inward.....	70,720,915	114,526	—	—	—	70,835,441
Export.....	76,695,318	15,702,309	12,916,280	11,272,903	28,452,210	145,039,020
U.S. GRAIN						
Inward.....	6,521,105	—	—	—	—	6,521,105
Export.....	5,878,753	—	—	—	—	5,878,753
Totals.....	167,898,445	15,816,835	12,916,280	11,272,903	28,846,622	236,751,085

Table E-15.—Grain Sampled but not Inspected, Crop Year 1957-58

	Montreal	Toronto and Chatham	Sorel, Three Rivers and Quebec	Halifax and St. John	Total
EASTERN GRAIN					
Carlots.....	12	32	—	—	44
Inward Cargoes (bu.).....	300,083	89,667	—	—	389,750
Outward Cargoes (bu.).....	363,498	—	—	—	363,498
Bin Lots (bu.).....	116,447	11,000	—	—	127,447
WESTERN GRAIN					
Carlots.....	11	17	—	—	28
Inward Cargoes (bu.).....	129,665	—	97,301	—	226,966
Outward Cargoes (bu.).....	4,937,063	—	2,464,508	791,146	8,192,717
Bin Lots (bu.).....	565,682	—	1,958	2,955	570,595
U.S.A. GRAIN					
Carlots.....	88	—	—	—	88
Inward Cargoes (bu.).....	1,275,304	—	—	—	1,275,304
Outward Cargoes (bu.).....	124,860	—	—	—	124,860
Bin Lots (bu.).....	115,029	—	—	—	115,029
Totals—Cars.....	111	49	—	—	160
—Bushels.....	7,927,631	100,667	2,563,767	794,101	11,386,166

BOARD OF GRAIN COMMISSIONERS

APPENDIX F

Grain Weighing Branch

J. J. Manson, Chief Grain Weighman

Under the provisions of Sections 33 and 124 of the Canada Grain Act, all grain received into or shipped from licensed terminal elevators is weighed under the supervision of the Board's weighing staffs. Weighing services are also provided at licensed mill elevators.

During the Crop Year 1957-58 weighing services were provided at forty-five semi-public and private terminal elevators and when required, at twenty-nine mill elevators in the Western Division.

All scales and the equipment for transferring grain to scales on receipt and from scales for shipment in all licensed terminal elevators and serviced mill elevators were regularly inspected during the crop year under provision of Section 92 of the Act.

In accordance with the special arrangement with the Standards Branch of the Department of Trade and Commerce, all scales in licensed terminal and eastern elevators were inspected, verified and stamped by the Board's Scale Inspector acting as an inspector under the Weights and Measures Act. A semi-annual inspection was also made of all scales at terminal elevators to ascertain if scales were maintaining their accuracy. Special inspections were made when any doubt arose as to the accuracy of any particular scale.

Attention has been given to alterations in elevators and dust control installations to ensure that such changes and installations do not affect the accuracy of the weighing of grain received at or shipped from these elevators.

During the crop year under review, 299,976 car lots of grain were weighed on receipt at terminal and mill elevators in the Western Division and of these car lots, 52,785 or 17.6% were reported leaking and 5,787 or 1.9% were without seals or had defective seals. There was also a total of 21,806 cars weighed out of terminals.

This Branch maintained a close checking of reported outturns at eastern elevators of cargoes loaded at Lakehead terminals, and investigations were made in cases of reported excessive shortages with a view to assessing the liability in cases where such could be established.

Under provisions of Sections 139 and 140 of the Canada Grain Act, weighovers were conducted at twenty-four terminal elevators and twenty-one eastern elevators. Results of weighovers were submitted to the Board for comparison with outstanding warehouse receipts and preparation of official statements. The Board found it necessary to defer several terminal and eastern elevator audits due to heavy grain stocks in store.

The following tables summarize the grain weighed and other information relating to the work of this Branch.

TRADE AND COMMERCE

Table F-1.—Gross Quantities of All Grains Weighed at Terminal Elevators in the Western Division during 1957-58 Crop Year

Point	Wheat bu.	Oats bu.	Barley bu.	Rye bu.	Flaxseed bu.	Canadian Corn bu.	Canadian Buckwheat bu.	Miscel- laneous lbs.
RECEIPTS								
Fort William-Port Arthur.....	181,171,400	56,235,480	81,728,528	5,462,920	12,286,240	—	124,680	67,246,704
Vancouver-New Westminster.....	131,783,459	2,006,643	20,226,622	1,474,989	6,395,806	—	—	281,747,361
Victoria.....	2,093,389	791	2,940	—	857,765	—	—	45,608,960
Prince Rupert.....	17,480,155	1,023	10,540,221	—	—	—	—	—
Churchill.....	377,206	5,528	2,116,310	—	2,658	—	—	13,524
Calgary.....	159,989	275,786	76,668	1,305	2,055	2,219	—	15,948,400
Edmonton.....	361,322	—	2,492	—	—	—	—	46,870,270
Lethbridge.....	9,048	244,804	—	—	—	—	—	—
Moose Jaw.....	—	116,551	—	—	1,430	—	—	—
Saskatoon.....	537,712	46,036	56,068	4,120	90,407	—	—	122,146,230
North Transcona.....	—	—	—	—	2,000	—	—	2,211,235
Total Receipts.....	333,973,680	58,932,642	114,749,849	6,943,334	19,638,361	2,219	124,680	581,792,684
SHIPMENTS								
Fort William-Port Arthur.....	178,429,990	57,207,055	79,802,785	4,989,345	10,361,790	—	156,740	450,292,897
Vancouver-New Westminster.....	128,209,973	3,164,151	19,971,031	1,358,870	5,294,725	—	—	259,522,673
Victoria.....	2,173,766	29,087	2,500	—	708,812	—	—	45,673,630
Prince Rupert.....	—	—	10,562,860	—	—	—	—	—
Churchill.....	18,161,046	56,750	—	—	—	—	—	11,862,730
Calgary.....	906,842	7,401	1,842,750	24,152	5,629	—	—	13,821,420
Edmonton.....	439,287	276,971	82,459	1,305	3,051	9,000	—	40,983,020
Lethbridge.....	136,004	8,160	2,492	—	17	—	—	—
Moose Jaw.....	9,048	244,680	—	—	1,430	—	—	101,436,810
Saskatoon.....	237,500	118,783	—	—	90,306	—	—	938,830
North Transcona.....	917,447	43,745	55,894	4,120	2,000	—	—	—
Total Shipments.....	329,620,903	61,156,783	112,322,771	6,377,792	16,467,760	9,000	156,740	924,532,010

BOARD OF GRAIN COMMISSIONERS

Table F-2.—Number of Cars Leaking and Cars with Missing Seals at the Lakehead, at Other Points and at Winnipeg Yards, by Railways, for the Crop Year 1957-58

Destination	Cars Leaking		Missing Seals	
	C.N.R.	C.P.R.	C.N.R.	C.P.R.
Lakehead Elevators and Yards.....	18,210	17,797	1,638	1,903
Other Points.....	7,365	9,413	1,242	1,004
Totals.....	25,575	27,210	2,880	2,907
Totals, Both Railways.....		52,785		5,787
Winnipeg Yards.....	913	1,045	476	530

Table F-3.—Number of Cars Weighed at all Points and Percentage of such Cars found Leaking or with Defective Seals, Crop Years 1956-57 and 1957-58

	Number		Percentage of Total	
	1957-58	1956-57	1957-58	1956-57
Cars Weighed In.....	299,976	305,276	100.0	100.0
Inward Cars Leaking.....	52,785	56,141	17.6	18.3
Inward Cars with Missing or Defective Seals.....	5,787	7,877	1.9	2.5
Cars Weighed Out.....	21,806	30,171	—	—

Table F-4.—Average Reported Outturn Shortages on Vessel Shipments of Grain from Fort William-Port Arthur to Canadian and United States Ports during the 1957-58 Crop Year

Grain	Bushels Shipped	Shortage in Pounds per 1,000 Bushels	
		1957-58	1956-57
CANADIAN PORTS			
Wheat.....	150,530,192	31.43	31.1
Durum Wheat.....	19,206,684	28.28	15.4
Oats.....	36,588,738	22.97	21.1
Barley.....	53,129,406	24.11	28.7
Rye.....	1,570,602	13.55	46.9
Flaxseed.....	8,160,126	26.59	21.3
Buckwheat.....	91,730	30.26	51.1
Mixed Grain (in lbs.).....	1,193,710	1.47 lbs. per 1,000 lbs.	.4 lbs. per 1,000 lbs.
Sample Grain (in lbs.).....	18,183,890	.55 lbs. per 1,000 lbs.	.8 lbs. per 1,000 lbs.
Screenings (in tons).....	43,560	1.39 lbs. per ton	1.1 lbs. per ton

UNITED STATES PORTS

Wheat.....	6,528,538	82.47	63.7
Durum Wheat.....	44,097	55.91	—
Oats.....	15,146,309	50.11	53.1
Barley.....	21,441,792	39.83	43.6
Rye.....	3,201,175	48.21	36.1
Flaxseed.....	—	—	124.0
Buckwheat.....	—	—	111.2
Screenings (in tons).....	35,637	—	—

TOTAL CANADIAN AND UNITED STATES PORTS

Wheat.....	157,058,730	33.55	32.3
Durum Wheat.....	19,250,781	28.35	15.4
Oats.....	51,735,047	30.92	28.2
Barley.....	74,571,198	28.63	33.1
Rye.....	4,771,777	37.96	39.0
Flaxseed.....	8,160,126	26.59	21.6
Buckwheat.....	91,730	30.26	64.7
Mixed Grain (in lbs.).....	1,193,710	1.47 lbs. per 1,000 lbs.	.4 lbs. per 1,000 lbs.
Sample Grain (in lbs.).....	18,183,890	.55 lbs. per 1,000 lbs.	.8 lbs. per 1,000 lbs.
Screenings (in tons).....	79,197	.77 lbs. per ton	.5 lbs. per ton

APPENDIX G

Statistics Branch

E. E. BAXTER, Chief Statistician

The Statistics Branch receives reports from all elevators licensed under the Canada Grain Act and from these returns compiles and publishes basic statistics relating to the storage and handling of grain within the Canadian elevator system. It prepares audit statements of the operations of all terminal and eastern elevators, verifies the insurance carried on grain stocks, supplies for review by the Board a detailed analysis of country and terminal grain handlings and co-operates with other Board offices in the maintenance of detailed records of principal operations.

There were no major changes in the general statistical bulletins released by this office during 1957-58. The distribution of these publications continued to expand and the facilities of the local plant of the Queen's Printer were utilized to improve the service and reduce the costs of these operations. The demand for special statistics from the Grain Trade, and government and other offices registered a further increase as indication of the wider adoption of these statistics to operational analyses.

Continued close co-operation with other offices of the Board made possible further integration of records through this Branch's machine accounting unit and thereby facilitated the preparation of special reports for Board review. Parallel steps were taken towards the integration of records and reports in electronic machine card accounting form with those grain companies and organizations using these media.

The records and facilities of the office were made available to the Box Car Distribution Inquiry. The tabulating and research sections of the Branch prepared a wide range of detailed statements of country and terminal elevator capacities, stocks, handlings and inter-related ratios for this investigation. The office also supplied historical records of their own operations for certain individual companies and groups for use in their submissions to the Inquiry.

The grain audit statements prepared in connection with elevator stock weighups during the year carried out by the Weighing and Inspection Branches of the Board under authority of Sections 139 and 140 of the Canada Grain Act are summarized in the tables G12-14 inclusive of this appendix. Additional statistics and analyses relating to the operations of these elevators were prepared for the information of the Board in their examination of these audits.

The responsibility of the Branch under Section 21 of the Act was met by the maintenance within the office of grain price records for the principal grain markets and the preparation therefrom of regular statements of price statistics.

In compliance with Section 102 of the Canada Grain Act the office continued to examine and check grain insurance policies and reports filed by elevator licensees and thereby ensured adequate protection to owners of stored grain.

BOARD OF GRAIN COMMISSIONERS

Vessel charter confirmations submitted by shippers with respect to all lake grain cargoes shipped from Fort William-Port Arthur during the 1958 season of navigation were examined by this office in accordance with our responsibilities under the Inland Water Freight Rates Act. These reports covered the 1,123 vessels that carried 322 million bushels of the five principal grains during the 1958 season which opened on April 18 and closed December 13. Rates on these cargoes opened and continued for the season at the maximum level of charges allowable under this Act.

The operations of the 5,348 country elevators licensed for the 1957-58 season were reported in annual returns filed by the companies. These reports were examined and tabulated for statistical records and special analyses. A further 1,867 reports were received on a continuing basis from the operating companies covering those country elevator weighups completed over the crop season. Special reports and tabulations were made from these statements for the use of the Board and the Assistant Commissioners in their review of the individual agent's operations.

The principal general grain statistics for the 1957-58 crop year and the 1958 season of navigation are summarized in the tables which follow. More complete details of Canada's grain trade are published in the Branch's export release—Canadian Grain Exports 1957-58, the various regular and periodical bulletins of the Branch, and in the "Grain Trade of Canada" released jointly by this office and the Agriculture Division of the Dominion Bureau of Statistics.

Table G-1.—Supply and Disposition of Canadian Grain, Crop Year 1957-58

	Wheat	Oats	Barley	Rye	Flaxseed
SUPPLY	bu.	bu.	bu.	bu.	bu.
Carry-over July 31st, 1957.....	729,545,846	226,215,327	142,778,542	14,159,691	7,580,565
Production in 1957.....	370,508,000	380,599,000	215,993,000	8,539,000	19,179,000
Total Supply.....	1,100,053,846	606,814,327	358,771,542	22,698,691	26,759,565
DISPOSITION					
Exported Overseas.....	308,427,344	4,313,944	53,662,300	2,293,618	13,850,129
Exported to the U.S.A.....	7,166,086	21,580,991	21,457,508	3,151,985	—
Consumed in Canada.....	173,006,675	426,003,758	165,486,444	7,191,135	7,257,420
Total Disposition.....	488,600,105	451,898,693	240,606,252	12,636,738	21,107,549
CARRY-OVER (July 31st, 1958)					
On Farms (estimated).....	203,900,000	108,000,000	57,500,000	6,030,000	930,000
In Country, Private Terminal and Mill Elevators.....	244,129,561	32,912,414	37,568,007	1,762,496	1,044,571
In Semi-Public Terminal Elevators.....	71,454,654	5,596,595	16,000,285	1,395,120	2,735,134
In Store at and Afloat to Eastern Elevators.....	68,739,805	4,995,855	5,534,532	294,039	497,363
In Eastern Flour Mills.....	2,567,859	177,324	15,251	—	—
In Transit by Rail—Eastern and Western Divisions.....	20,661,862	3,233,446	1,018,221	515,816	444,948
In Store and in Transit to the United States.....	—	—	528,994	64,482	—
Total in Store July 31st, 1958	611,453,741	154,915,634	118,165,290	10,061,953	5,652,016

TRADE AND COMMERCE

**Table G-2.—Production and Producers' Marketings in Western Canada,
by Provinces, Crop Year 1957-58**

	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
PRODUCTION (DBS estimate)					
Manitoba.....	45,000,000	58,000,000	33,000,000	1,200,000	3,500,000
Saskatchewan.....	211,000,000	80,000,000	80,000,000	3,200,000	10,500,000
Alberta and British Columbia	94,031,000	100,616,000	98,056,000	1,951,000	5,016,000
Totals.....	350,031,000	238,616,000	211,056,000	6,351,000	19,016,000
PRODUCERS' MARKETINGS					
(a) At Country Elevators					
Manitoba.....	41,396,282	19,226,216	19,565,652	986,314	2,813,311
Saskatchewan.....	243,952,159	23,823,076	51,403,243	4,063,017	8,310,557
Alberta.....	88,827,346	14,310,546	45,499,201	2,252,826	3,653,093
Totals.....	374,175,787	57,359,838	116,468,096	7,302,157	14,776,961
(b) At Interior Semi-Public Terminals					
Manitoba.....	23,333	27,801	17,828	—	—
Saskatchewan.....	—	—	—	—	—
Alberta.....	346,824	275,041	66,610	—	883
Totals.....	370,157	302,842	84,438	—	883
(c) At Interior Private and Mill Elevators					
Manitoba.....	220,920	102,225	28,687	6,293	84,534
Saskatchewan.....	1,962,911	90,229	105,068	1,128	112,443
Alberta.....	1,392,483	406,943	130,603	79,393	305,269
Totals.....	3,576,314	599,397	264,358	86,814	502,246
(d) Loaded over Platforms					
Manitoba.....	1,747	5,520	813	—	—
Saskatchewan.....	38,113	2,083	7,455	—	11,025
Alberta.....	29,991	2,176	40,692	6,308	4,390
Totals.....	69,851	9,779	48,960	6,308	15,415
Total Producers' Marketings					
Manitoba.....	41,642,282	19,361,762	19,612,980	992,607	2,897,845
Saskatchewan.....	245,953,183	23,915,388	51,515,766	4,064,145	8,434,025
Alberta.....	90,596,644	14,994,706	45,737,106	2,338,527	3,963,635
Totals.....	378,192,109	58,271,856	116,865,852	7,395,279	15,295,505

BOARD OF GRAIN COMMISSIONERS

Table G-3.—Receipts and Shipments of Canadian Grain at Terminal Elevators, Crop Year 1957-58

	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
Fort William-Port Arthur—					
Receipts.....	176,412,251	54,971,441	79,296,717	5,241,024	10,097,681
Shipments.....	178,206,775	56,769,572	78,665,353	4,932,552	10,164,399
Vancouver-New Westminster—					
Receipts.....	128,107,099	1,983,524	19,979,229	1,430,111	5,448,604
Shipments.....	128,209,957	3,164,151	19,971,030	1,358,870	5,224,300
Victoria—					
Receipts.....	2,030,741	791	2,940	—	702,400
Shipments.....	2,173,766	29,087	2,500	—	701,740
Prince Rupert—					
Receipts.....	—	—	10,357,023	—	—
Shipments.....	—	—	10,562,860	—	—
Churchill—					
Receipts.....	17,042,058	1,023	—	—	—
Shipments.....	18,395,046	56,750	—	—	—
Transcona—					
Receipts.....	527,304	45,765	55,549	4,120	2,000
Shipments.....	917,419	43,712	55,894	4,120	2,000
Calgary—					
Receipts.....	376,725	5,528	2,115,414	—	2,482
Shipments.....	906,842	7,401	1,842,749	24,151	5,579
Edmonton—					
Receipts.....	156,239	275,041	76,484	1,305	2,055
Shipments.....	439,287	276,971	82,459	1,305	3,039
Lethbridge—					
Receipts.....	352,324	—	2,492	—	—
Shipments.....	136,004	8,160	2,492	—	17
Moose Jaw—					
Receipts.....	9,048	244,680	—	—	1,430
Shipments.....	9,048	244,680	—	—	1,430
Saskatoon—					
Receipts.....	—	116,489	—	—	90,306
Shipments.....	237,500	118,783	—	—	90,306
Total Receipts.....	325,013,789	57,644,282	111,885,848	6,676,560	16,346,958
Total Shipments.....	329,631,644	60,719,267	111,185,337	6,320,998	16,192,810

Table G-4.—Shipments of Foreign Grain from Canadian Elevators into Canadian Consumer Channels, Crop Year 1957-58

From	United States Corn	United States Soybeans	United States Rice
	bu.	bu.	bu.
Eastern Elevators.....	4,430,303	1,335,845	21,552
Fort William-Port Arthur.....	—	—	—
Interior Terminals.....	—	—	—
Interior Private and Mill Elevators.....	990,356	—	—
Pacific Coast Elevators.....	—	—	—

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Table G-5.—Primary Receipts and Shipments at Eastern Elevators, Crop Year 1957-58

	Receipts	Shipments
	bu.	bu.
Canadian Grain—		
Wheat.....	173,850,365	177,529,028
Oats.....	37,406,722	37,150,660
Barley.....	48,377,821	48,264,225
Rye.....	1,781,833	1,888,363
Flaxseed.....	10,637,341	10,727,266
Corn.....	2,866,669	3,141,252
Soybeans.....	3,294,043	3,015,457
Buckwheat.....	238,952	342,765
Peas.....	299,172	299,490
Rapeseed (lbs.).....	52,999,680	53,512,210
Mixed Grain (lbs.).....	1,191,950	1,268,530
Sample Grain (lbs.).....	18,500,970	21,143,971
United States Grain—		
Flaxseed.....	6,923,881	7,036,281
Corn.....	5,233,116	5,494,768
Soybeans.....	1,337,883	1,335,845
Rice.....	21,552	21,552
Buckwheat.....	14,773	14,773

Table G-6.—Supply and Disposition of Canadian Grain in United States Positions, Crop Year 1957-58

	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
SUPPLY					
In Store and in Transit U.S.A.....	78,752	104,531	—	18,000	—
Receipts direct from Canada.....	7,653,152	21,476,460	21,633,294	3,198,467	—
Total Supply.....	7,731,904	21,580,991	21,633,294	3,216,467	—
DISPOSITION					
Exported.....	—	—	—	—	—
Returned to Canada.....	565,818	—	—	—	—
Used Domestically.....	7,166,086	21,580,991	21,457,508	3,151,985	—
Total Disposition.....	7,731,904	21,580,991	21,457,508	3,151,985	—
In Store and in Transit, July 31, 1958	—	—	175,786	64,482	—

BOARD OF GRAIN COMMISSIONERS

Table G-7.—Exports of Canadian Wheat, by Seaboard Sectors, by Months, Crop Year 1957-58

	Via Canadian Pacific Ports	Via Canadian St. Lawrence- Atlantic Ports	Via Churchill	Via Fort William- Port Arthur Direct	Via United States Atlantic Ports	United States Imports ¹	Total All Wheat	Wheat Flour ²	Total Wheat and Wheat Flour
	bu.	bu.	bu.	bu.	bu.	Milling in Bond	bu.	bu.	bu.
1957									
August.....	9,948,729	6,495,289	7,869,393	—	—	335,563	66,950	24,715,924	27,192,598
September.....	10,959,284	3,940,161	5,759,933	—	—	441,766	65,015	21,166,159	23,906,149
October.....	8,832,578	5,450,301	2,947,880	—	—	619,578	64,231	17,914,568	21,391,768
November.....	14,316,062	12,640,919	—	—	—	738,690	27,424	27,906,055	30,775,699
December.....	11,553,435	7,655,592	—	—	—	610,286	80,291	19,899,604	23,820,079
1958									
January.....	12,535,581	6,064,492	—	—	—	242,750	—	18,842,823	3,506,741
February.....	8,804,057	9,695,151	—	—	—	63,288	—	18,562,496	2,302,896
March.....	9,625,910	9,436,323	—	—	—	216,147	164,720	19,443,100	20,865,392
April.....	11,144,239	11,261,331	—	—	—	381,664	—	22,787,234	3,837,400
May.....	11,326,073	22,132,538	—	—	—	732,200	1,115,384	35,266,195	23,280,500
June.....	11,453,288	14,671,783	—	—	—	751,088	28,909	26,905,068	25,855,004
July.....	9,208,431	10,876,573	1,817,840	143,405	—	237,142	—	22,283,391	40,134,232
Total Crop Year 1957-58.....	129,667,667	120,320,453	18,395,046	143,405	—	5,370,162	1,795,924	275,692,657	315,593,430
Total Crop Year 1956-57.....	104,119,211	101,535,965	16,250,320	—	480,137	4,757,417	1,114,084	228,257,134	33,539,591 ³
5-Year Average 1952-53 to 1956-57.....	100,080,768	126,427,626	12,183,118	73,664	923,547	7,432,143	2,196,562	249,317,428	43,381,626
									292,699,054

¹Compiled from returns of Canadian elevator licensees and shippers and advice from American grain correspondents.²Canadian Customs returns converted to bushels—unadjusted for time lag.³Revised—adjusted to remove effect of time lag in reports made by the Customs.

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Table G-8.—Overseas Exports of Canadian Grain, by Seaboard Sectors, by Grades, Crop Year 1957-58

Grades	Via Canadian Pacific Ports	Via Canadian St. Lawrence- Atlantic Ports*	Via Churchill	Via United States Atlantic Ports	Total
WHEAT—	bu.	bu.	bu.	bu.	bu.
1 Manitoba Northern.....	254,095	1,322,576	9,333	—	1,586,0
2 Manitoba Northern.....	30,877,717	36,926,410	10,207,957	—	78,012,0
3 Manitoba Northern.....	51,005,568	27,876,869	3,931,500	—	82,813,9
4 Manitoba Northern.....	26,831,995	22,015,038	421,944	—	49,268,9
No. 5.....	15,038,652	14,146,912	3,574,673	—	32,760,2
No. 6.....	4,718,250	183,759	—	—	4,902,0
3 C.W. Garnet.....	25,323	—	—	—	25,3
1 Alberta Red Winter.....	34,999	—	—	—	34,9
2 Alberta Winter.....	127,022	—	—	—	127,0
3 Alberta Winter.....	39,515	—	—	—	39,5
Other Western.....	714,531	2,930,320	249,639	—	3,894,4
Eastern.....	—	2,647,561	—	—	2,647,5
2 C.W. Amber Durum.....	—	2,381,682	—	—	2,381,6
3 C.W. Amber Durum.....	—	1,603,188	—	—	1,603,1
Extra 4 C.W. Amber Durum.....	—	5,189,878	—	—	5,189,8
4 C.W. Amber Durum.....	—	3,032,319	—	—	3,032,3
Other Durum.....	—	207,346	—	—	207,3
Totals.....	129,667,667	120,463,858	18,395,046	—	268,526,5
OATS—					
Extra 3 C.W.....	16,471	—	—	—	16,4
3 C.W.....	32,941	977,244	—	—	1,010,1
Extra 1 Feed.....	476,501	78,729	—	—	555,2
1 Feed.....	983,342	279,338	—	—	1,262,6
Mixed Feed.....	747,437	205,110	56,750	—	1,009,2
Eastern.....	—	460,081	—	—	460,0
Totals.....	2,256,692	2,000,502	56,750	—	4,313,9
BARLEY—					
3 C.W. Six Row.....	5,869,314	1,405,328	—	—	7,274,6
4 C.W. Six Row.....	—	295,995	—	—	295,9
3 C.W. Two Row.....	10,168,693	209,011	—	—	10,377,7
1 Feed.....	12,166,840	2,574,160	—	—	14,741,0
2 Feed.....	2,068,732	18,830,853	—	—	20,899,5
Other Western.....	—	73,374	—	—	73,3
Totals.....	30,273,579	23,388,721	—	—	53,662,8
RYE—					
2 C.W.....	1,085,279	256,000	—	—	1,341,2
3 C.W.....	269,341	682,998	—	—	952,3
Totals.....	1,354,620	938,998	—	—	2,293,6
FLAXSEED—					
1 C.W.....	4,543,394	4,646,763	—	—	9,190,1
2 C.W.....	1,459,433	2,959,438	—	—	4,418,8
3 C.W.....	—	41,101	—	—	41,1
Totals.....	6,002,827	7,647,302	—	—	13,650,1

*Includes grain shipped direct from Canadian Lake Ports.

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Table G-9.—Overseas Exports of Canadian Grain, by Ports, Crop Year 1957-58

Loaded at	Wheat (All varieties)	Oats	Barley	Rye	Flaxseed	Total All Grains
	bu.	bu.	bu.	bu.	bu.	bu.
Vancouver-New Westminster.....	127,497,256	2,256,692	19,710,719	1,354,620	5,293,715	156,113,002
Victoria.....	2,170,411	—	10,562,860	—	709,112	2,879,523
Prince Rupert.....	—	—	275,899	—	—	10,562,860
Fort William-Port Arthur Direct.....	143,405	—	—	—	—	419,304
Humberstone Direct.....	32,328	—	—	—	—	32,328
Kingston Direct.....	—	—	40,563	—	—	40,563
Prescott Direct.....	55,515,065	1,671,309	39,445	—	—	39,445
Montreal.....	11,545,507	—	17,486,330	928,873	5,138,019	80,739,596
Sorel.....	13,890,366	230,427	4,589,478	—	326,252	16,461,237
Three Rivers.....	11,009,887	—	635,430	—	10,349	14,131,142
Quebec.....	1,028,855	—	—	—	—	11,615,317
Saint John.....	14,283,738	98,766	309,936	10,125	2,152,188	1,028,855
West Saint John.....	13,014,707	—	11,640	—	20,494	16,854,733
Halifax.....	18,395,046	56,750	—	—	—	13,046,841
Churchill.....	—	—	—	—	—	18,451,796
Totals—Canadian Ports.....	268,526,571	4,313,944	53,662,300	2,293,618	13,650,129	342,446,562
U.S.A. Ports.....	—	—	—	—	—	—
Totals to Overseas.....	268,526,571	4,313,944	53,662,300	2,293,618	13,650,129	342,446,562
Wheat Flour ¹	39,900,773	—	—	—	—	39,900,773
U.S.A. Imports ²	7,166,086	21,580,991	21,457,508	3,151,985	—	53,356,570
Grand Totals.....	315,593,430	25,894,935	75,119,808	5,445,603	13,650,129	435,703,905

¹Canadian Customs Returns—converted to bushels.²Compiled from returns of Canadian Elevator licensees and shippers and advice from American grain correspondents.

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Table G-10.—Tough and Damp Grain Dried, by Storage Position, Crop Year 1957-58

	Artificial Drying			Natural Drying	Total
	Tough	Damp	Tough and Damp		
LAKEHEAD					
Wheat.....	bu. 2,365	bu. 734	bu. 3,099	bu. 1,933,611	bu. 1,936,710
Durum Wheat.....		—	—	38,987	38,987
Oats.....	1,595	—	1,595	256,567	258,162
Barley.....	227	5,868	6,095	925,222	931,317
Rye.....	81	1,527	1,608	81,256	82,864
Flaxseed.....	7,540	3,093	10,633	30,089	40,722
Totals.....	11,808	11,222	23,030	3,265,732	3,288,762
PACIFIC COAST					
Wheat.....	121,104	63,643	184,747	5,480,597	5,665,344
Oats.....	65,778	13,200	78,978	157,897	236,875
Barley.....	946,082	64,344	1,010,426	2,234,730	3,245,156
Rye.....	—	—	—	10,926	10,926
Flaxseed.....	—	—	—	66,721	66,721
Totals.....	1,132,964	141,187	1,274,151	7,950,871	9,225,022
INTERIOR					
Wheat.....	—	—	—	—	—
Barley.....	—	1,411	1,411	41,303	41,303
Totals.....	—	1,411	1,411	41,303	42,714
CHURCHILL					
Wheat.....	—	—	—	36,261	36,261
Totals, All Positions.....	1,144,772	153,820	1,298,592	11,294,167	12,592,759

Table G-11.—Weighted Average Lake Freight Rates on Canadian Grain from Fort William-Port Arthur, Season of Navigation 1958

Port of Discharge	Wheat	Oats	Barley	Rye	Flaxseed
Georgian Bay Ports, Goderich, Sarnia and Walkerville.....	6.038	5.015	5.320	5.5	—
Port Colborne.....	7.652	6.751	7.250	7.5	8.0
Toronto.....	8.064	7.25	7.521	—	8.519
Kingston.....	8.75	8.0	8.25	—	—
Prescott.....	9.0	8.25	8.5	—	—
Montreal (Direct).....	16.0	13.0	15.25	16.0	17.0
Montreal via Bay Ports.....	16.0	13.0	—	—	—
Montreal via Port Colborne.....	16.0	13.0	15.25	—	17.0
Montreal via Toronto.....	16.0	—	15.25	—	—
Montreal via Kingston.....	16.0	13.0	15.25	16.0	17.0
Montreal via Prescott.....	16.0	13.0	15.130	16.0	17.0
Sorel (Direct).....	16.0	13.0	15.25	—	—
Sorel via Bay Ports.....	16.0	—	—	—	—
Sorel via Port Colborne.....	16.0	13.0	15.25	—	17.0
Sorel via Prescott.....	16.0	13.0	15.25	—	—
Three Rivers via Bay Ports.....	16.0	—	—	—	—
Three Rivers via Port Colborne.....	16.0	13.0	—	—	—
Three Rivers via Toronto.....	16.0	13.0	15.25	—	17.0
Three Rivers via Kingston.....	16.0	13.0	—	—	—
Three Rivers via Prescott.....	16.0	—	15.25	—	17.0
Quebec (Direct).....	16.0	13.0	15.25	—	—
Quebec via Port Colborne.....	16.0	13.0	15.25	—	—
Quebec via Kingston.....	16.0	—	—	—	—
Quebec via Prescott.....	16.0	13.0	15.25	—	—
Buffalo.....	8.110	6.049	7.899	7.895	—
Chicago.....	7.507	—	5.5	6.878	—
Detroit.....	—	—	6.622	—	—
Duluth-Superior.....	6.199	—	5.424	5.760	—
Huron.....	6.5	5.5	—	—	—
Manitowoc.....	—	—	6.179	—	—
Milwaukee.....	—	—	6.501	—	—

Note.—Rates originally quoted in United States Funds have been converted to Canadian currency at the prevailing rates of exchange.

Table G-12.—Excesses and Deficiencies in Specified Grades of Wheat Disclosed by weighovers or grain stored in TERMINAL Elevators, Crop Year 1957-58

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Date of Weighover	Licensee	EXCESS						DEFICIENCY					
		No. 1 Manitoba Hard	No. 1 Northern	No. 2 Manitoba Northern	No. 3 Manitoba Northern	No. 1 Canada Western Garnet	No. 2 Canada Western Garnet	No. 1 Manitoba Hard	No. 2 Manitoba Northern	No. 1 Canada Western Garnet	No. 2 Canada Western Garnet	No. 3 Manitoba Northern	No. 1 Canada Western Garnet
Dec. 19-30, 1957.....	FORT WILLIAM-PORT ARTHUR Empire.....	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.
Dec. 11-17, 1957.....	Fort William Elevator Co. Ltd.	—	—	—	—	—	—	—	—	201.3	109.5	728.1	—
Dec. 12-18, 1957.....	Elevator "E"; Elevator "F".	—	—	—	—	—	—	—	—	40.0	32.0	—	.8
Nov. 21-25, 1957.....	Lakehead Terminals Ltd.....	—	2.7	2,774.7	1,957.1	—	—	—	—	—	—	—	—
Sept. 4-16, 1957.....	Manitoba Pool Elevators Elevator No. 6.....	—	—	—	—	—	—	—	—	1,605.2	16,945.8	14,029.9	—
Dec. 13-18, 1957.....	McCabe Grain Co. Ltd.....	—	—	—	—	—	—	—	—	53.7	1,777.5	2,042.2	—
Dec. 18-31, 1957.....	National Grain Co. Ltd.....	—	—	—	—	—	—	—	—	176.1	3,227.5	11,051.5	—
Dec. 9-18, 1957.....	Ogilvie Flour Mills Co. Ltd.....	—	—	2,968.0	—	—	—	—	—	2,181.4	—	6,976.4	—
May 12-16, 1958.....	N. M. Paterson & Sons, Ltd.....	—	—	—	26,521.5	—	—	—	—	812.5	23,248.2	—	—
Dec. 20-31, 1957.....	Saskatchewan Wheat Pool Elevator No. 4.....	—	—	—	—	—	—	—	—	4,160.8	38,418.7	23,274.9	—
Dec. 17-27, 1957.....	Elevator No. 5.....	—	—	—	—	—	—	—	—	356.8	7,534.8	1,209.2	—
Dec. 12-19, 1957.....	United Grain Growers Ltd.....	—	—	—	—	—	—	—	—	872.9	14,434.6	95,649.9	—
June 9-13, 1958.....	VANCOUVER-NEW WESTMINSTER Pacific Elevators Ltd. Elevator No. 2.....	—	—	—	—	—	—	—	—	5.0	323.6	1,036.9	—
April 28-30, 1958.....	Elevator No. 4.....	—	—	—	—	—	—	—	—	113.9	834.4	2,572.3	—
Aug. 8-22, 1957.....	United Grain Growers Ltd. Elevator No. 3 (N.H.B.).....	—	546.8	—	—	—	—	—	—	17,795.0	7,736.4	359.1	—
July 4-7, 1958.....	PRINCE RUPERT, B.C. Canadian Government Elevator.....	—	—	—	—	—	—	—	—	—	—	—	—
July 2-7, 1958.....	NORTH TRANSONA, MAN. Eastern Terminal Elevator Co. Ltd.....	—	—	—	—	—	—	—	—	23.7	453.8	1,714.2	—
Oct. 16-24, 1957.....	CHURCHILL, MAN. National Harbours Board.....	—	3,084.0	—	—	—	—	—	—	—	66,272.7	27,604.4	—
June 16-26, 1958.....	CALGARY, ALTA. Canadian Government Elevator.....	—	—	—	—	—	—	—	—	—	213.2	801.4	—
May 5-9, 1958.....	EDMONTON, ALTA. Canadian Government Elevator.....	—	—	—	—	—	—	—	—	—	24.3	496.8	—

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Table G-13—Excesses and Deficiencies in Specified Grades of Wheat disclosed by Weighovers of Grain Stored in PRIVATE TERMINAL Elevators, Crop Year 1957-58

Grade of Wheat	Excess	Deficiency
No. 1 Manitoba Hard.....	bu.	bu.
No. 1 Manitoba Northern.....	—	—
No. 2 Manitoba Northern.....	—	—
No. 3 Manitoba Northern.....	—	—
No. 1 Canada Western Garnet.....	—	—
No. 2 Canada Western Garnet.....	—	—

No wheat of the above grades was handled or in store in the following elevators:

Date of Weighover	Elevator Company	Location
December 12th, 1957.....	Canada Malting Co. Ltd.....	Winnipeg, Manitoba
December 30th, 1957.....	Canada Malting Co. Ltd.....	Port Arthur, Ontario
December 10th, 1957.....	Dominion Malting Co. Ltd.....	Transcona, Manitoba
December 30th, 1957.....	National Grain Feed Mill.....	Fort William, Ontario

Table G-14.—Overages and Shortages Disclosed by Weighovers of Canada Western and Foreign Grain Stored in Eastern Elevators, Crop Year 1957-58

Date of Weighover	Licensee	Kind of Grain	Overage	Shortage
1958			bu.	bu.
Mar. 19-25	COLLINGWOOD Collingwood Terminals Ltd.....	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... Canada Western Rye..... Canada Western Sample Grain..... Canada Western Screenings..... U.S.A. Corn.....	3,172.2 574.3 — — — *980 —	3,275.6 — — 13.3 *180 — 299.1
Mar. 17- April 2	GODERICH Goderich Elevator and Transit Co. Ltd.....	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... Canada Western Rye..... Canada Western Sample Grain..... Canada Western Screenings..... U.S.A. Corn.....	— — — — *40,130 — —	19,567.5 12,620.4 12,698.6 708.6 — *264,505 1,500.9
Mar. 4-14	Upper Lakes and St. Lawrence Transporta- tion Co. Ltd.....	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... Canada Western Mixed Grain..... Canada Western Screenings.....	— — — — —	3,300.0 2,408.8 1,686.8 *21,380 — *68,770
Nov. 18-29, 1957	HUMBERSTONE Robin Hood Flour Mills Ltd.....	Canada Western Wheat..... Canada Western Barley..... Canada Western Rye.....	— — —	12,444.8 49.0 134.7
May 1	LAKEFIELD Lakefield Elevator Co...	Canada Western Wheat.....	—	343.3
Mar. 6-21	MIDLAND Canada Steamship Lines Ltd.....	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley.....	— — —	4,487.4 10.5 52.5
Mar. 11-18	Canadian National Railways.....	Canada Western Wheat.....	—	5,441.4

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Table G-14.—Overages and Shortages Disclosed by Weighovers of Canada Western and Foreign Grain Stored in Eastern Elevators, Crop Year 1957-58—Continued

Date of Weighover	Licensee	Kind of Grain	Overage	Shortage
1958 Mar. 10-20	Midland-Simcoe Elevator Co. Ltd.....	Canada Western Wheat.....	bu.	bu.
		Canada Western Oats.....	—	8,069.3
		Canada Western Barley.....	179.1	1,807.4
Feb. 25- Mar. 10	Renown Investments Ltd.....	Canada Western Wheat.....	—	1,670.6
		Canada Western Oats.....	—	297.8
Mar. 5-11	MONTREAL Dominion Elevator Ltd.	Canada Western Wheat.....	—	1,859.6
		Canada Western Oats.....	—	1,270.5
		Canada Western Barley.....	—	1,051.9
		Canada Western Sample Grain.....	—	*6,385
		Canada Western Screenings.....	—	*33,400
Mar. 21-28	OWEN SOUND Great Lakes Elevator Co. Ltd.....	U.S.A. Corn.....	—	36.7
		Canada Western Wheat.....	—	279.0
		Canada Western Oats.....	—	3,162.8
		Canada Western Barley.....	613.5	—
		Canada Western Sample Grain.....	*4,010	—
Mar. 10-17	PORT COLBORNE Maple Leaf Milling Co. Ltd.....	Canada Western Screenings.....	—	*2,420
		Canada Western Wheat.....	—	410.6
Mar. 19-28	PORT McNICOLL Canadian Pacific Railway Co.....	Canada Western Oats.....	—	233.2
		Canada Western Wheat.....	—	3,163.7
Feb. 18-28	PRESCOTT National Harbours Board.....	Canada Western Wheat.....	1,522.7	—
		Canada Western Oats.....	—	2,722.5
		Canada Western Barley.....	1,020.6	—
		Canada Western Rye.....	—	149.1
		Canada Western Flaxseed.....	—	2,237.1
		Canada Western Buckwheat.....	—	27.9
		Canada Western Sample Grain.....	—	*1,460
		U.S.A. Flaxseed.....	—	4,439.8
		U.S.A. Corn.....	—	1,644.0
		Canada Western Wheat.....	—	6,643.2
Feb. 19- Mar. 6	QUEBEC National Harbours Board.....	Canada Western Oats.....	—	2,198.0
		Canada Western Barley.....	—	2,126.1
		Canada Western Rye.....	—	16.3
		Canada Western Mixed Grain.....	—	*50
		Canada Western Sample Grain.....	—	*1,640
		Canada Western Screenings.....	—	*4,090
		U.S.A. Corn.....	—	168.1
		Canada Western Wheat.....	—	5,199.1
Feb. 4-18	SOREL North American Elevators Ltd.....	Canada Western Oats.....	—	912.2
		Canada Western Barley.....	—	1,473.5
		Canada Western Flaxseed.....	—	160.0
		U.S.A. Flaxseed.....	—	557.0
		U.S.A. Corn.....	—	117.5
		Canada Western Wheat.....	—	3,871.6
Feb. 17- Mar. 5	TORONTO Toronto Elevators Ltd.....	Canada Western Oats.....	—	4,506.9
		Canada Western Barley.....	—	471.2
		Canada Western Rye.....	—	25.0
		Canada Western Flaxseed.....	—	608.8
		Canada Western Sample Grain.....	—	*4,000
		Canada Western Screenings.....	—	*6,260
		U.S.A. Corn.....	94.4	—
		U.S.A. Soybeans.....	—	1,450.9

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Table G-14.—Overages and Shortages Disclosed by Weighovers of Canada Western and Foreign Grain Stored in Eastern Elevators, Crop Year 1957-58—Concluded

Date of Weighover	Licensee	Kind of Grain	Overage	Shortage
1958			bu.	bu.
Mar. 24-27	WALKERVILLE Hiram Walker & Sons Grain Corp. Ltd.....	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... Canada Western Rye..... U.S.A. Corn.....	— — — — 585.5	2,761.6 m 17.1 w 47.6
April 10	WEST SAINT JOHN Canadian Pacific Railway Co. Elevator "B".....	Canada Western Wheat..... Canada Western Oats..... Canada Western Rye..... Canada Western Flaxseed..... Canada Western Buckwheat..... Canada Western Soybeans..... Canada Western Rapeseed.....	— — — — — — —	317.0 t 3,202.1 1 61.7 a 6.3 s 543.2 ir 31.3 46.9 *290
April 11	Canadian Pacific Railway Co..... Elevator "H".....	Canada Western Wheat..... Canada Western Barley..... Canada Western Flaxseed..... Canada Western Buckwheat..... Canada Western Peas..... Canada Western Soybeans..... Canada Western Rapeseed.....	— — — — — — —	233.5 182.4 t 499.2 48.4 g 35.5 t 158.7 a *580 c
Mar. 31- April 8	HALIFAX National Harbours Board.....	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... Canada Western Rye..... Canada Western Flaxseed..... Canada Western Buckwheat..... Canada Western Soybeans..... Canada Western Rapeseed..... U.S.A. Wheat.....	— — — — — — — — —	14,038.5 v 18.7 t 13.3 a 511.6 s 671.1 c 2.8 e 85.2 e *7,790 I 85.9

*Pounds.

APPENDIX H

The Grain Research Laboratory

J. ANSEL ANDERSON, Chief Chemist

Section 22 of the Canada Grain Act requires that "The Board shall maintain an efficient and adequately equipped laboratory for research work in relation to grain."

The following summary report of the work of the Grain Research Laboratory for 1958 deals with the quality of Canadian grain marketed during the 1957-58 crop year, the estimated quality of 1958 grain crops, and with research and other activities. As in previous years, the Laboratory will publish a separate annual report that discusses these and other phases of the year's work in greater detail.

Quality of Grain Marketed in 1957-58

Throughout the 1957-58 crop year, the Laboratory continued studies of the quality of spring wheat, durum wheat, barley, oil seeds and other cereal grains at various stages of marketing. Comprehensive data obtained from these studies will be reported in the Laboratory's 1958 annual report as tables and maps. The 1957 spring wheat crop was the highest in average protein content since 1947, and represented a return to the exceptionally strong wheats which Canada harvested continuously during the dry years between the late thirties and early forties. But it was well into the crop year before any appreciable quantity of this wheat showed in export shipments as storage space from coasts right back to farms was filled with wheat from the large carryover of below-average protein content. Improvement in the quality of exports did occur, however, as the crop year progressed, particularly at the Pacific coast.

Spring wheat marketed in 1957-58 was high in bushel weight and flour yield, and, in general, protein levels were a little higher than for corresponding grades the previous crop year. Baking strength was definitely higher than in 1956-57, and carrying power for weaker wheats was very good indeed. Baking absorption and gassing power were both at satisfactory levels. Durum wheat was higher in protein content than for several years, and macaroni-making quality was similar in many respects to that of the previous crop. Extra No. 4 C.W. and No. 4 C.W. were the principal grades exported. Malting barley was about average in quality and higher in nitrogen content than in 1956-57. The flax crop was not quite so high in either oil content or iodine value as in the previous crop year, and the rapeseed crop was also a little lower in oil content.

Estimated Quality of 1958 Crops

The 1958 Western wheat crop is one of the smallest harvested in the last ten years, but it is low in moisture and high in grade and protein content. Production is estimated at 341 million bushels (including 16 million of durum wheat) from 20.2 million acres. About 90% of the spring wheat is expected to grade No. 3 Northern and higher, and for the first time in several years there is a fairly large volume of No. 1 Northern. Protein content is 13.8%, which is 0.3% higher than the long-term average. Bushel weight is high, and the Northern grades mill well and give high yields of flour. Baking strength is high, carrying power is very good, and doughs are lively and extensible. Baking absorption is high and gassing power is satisfactory. The new crop is

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higher in baking strength and better in carrying power than wheat exported in the last quarter of the 1957-58 crop year.

Production of durum wheat this year is well below the 44 million bushels harvested last year, and the major part of this reduction resulted from the much smaller acreage seeded (56% less than in 1957). About 85% of the crop will grade No. 2 C.W. and No. 3 C.W., and the wheat is vitreous, and high in bushel weight and protein content. Dough properties are very good, yellow pigment is high, and milling and macaroni-making qualities are excellent. The quality of the new durum crop appears to be consistently better, grade for grade, than current shipments moving forward.

The new barley crop is estimated at 237 million bushels, which is about 10% higher than in 1957. Early deliveries in the 1958-59 crop year show that 54% of the barley entered the malting grades, and it is expected that large quantities of No. 1 and No. 2 C.W. Six Row will be available this year. Comparable results for the two crops show that malt extract, wort nitrogen, and enzymatic activity are essentially the same, but that bushel weight and kernel weight are higher this year.

The 1958 flax crop of 23 million bushels is one of the largest on record and grade and bushel weight are both high. Oil content and protein content are a little higher this year than last year, but iodine value is a little lower. The rapeseed crop is estimated at 430 million pounds, and almost all of it is expected to go into the top grade. Oil content and protein content are much the same as last year's crop.

Bulletins and Maps

Preliminary information on the quality of different grades of 1958 grain crops was published as protein maps and crop bulletins a month or so after harvesting was completed. As in previous years there were two protein map (one preliminary and one final), two bulletins on wheat, one on barley, and one on flax and rapeseed. In addition to a wide distribution of these publications made by the Laboratory from its extensive mailing lists, large supplies of some of them were turned over to the Canadian Wheat Board for separate mailing. Two thousand copies of the bulletin on the quality of the new wheat crop were also sent to the Grain Division, Department of Trade and Commerce, Ottawa for distribution to overseas buyers of Canadian wheat and flour by Canadian Trade Commissioners. Press releases preceded publications of the maps and bulletins, and much of the information reported was presented at the meeting of the Committee on Western Grain Standards held in Winnipeg on October 23.

Regular publication of the two series of quarterly bulletins, one on the quality of spring wheat cargoes and one on the quality of durum wheat cargoes was continued throughout 1958. Some changes in the form of the bulletin and in methods of testing were introduced at the beginning of the 1958-59 crop year, and issues for the first quarter embodied these modifications. More data are now presented than formerly and comments on the quality of the grades exported have been shortened. These quarterly bulletins are among the most popular of the Laboratory's publications, and requests for additional copies have increased every year since they were issued.

Service to the Inspection Branch

During the year, the Laboratory maintained close co-operation with the Inspection Branch by providing technical information and service required for grading and other problems. Comprehensive quality tests were made on the tentative Standard and Standard Export samples submitted for approval by the Committee on Western Grain Standards. Special tests were made on differen-

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types and classes of grain to provide information to assist in grading. For example, malting tests confirmed the claims of maltsters and brewers that peeled barley is low in germination, extract yield and enzymatic activity, and contains moulds that carry undesirable products into the brewhouse; milling and baking tests showed that severely weathered wheat gives flour that is low in baking strength and inferior in dough and loaf qualities. Supervision of moisture testing and of equipment in Inspection offices was continued as one of the Laboratory's responsibilities, and during the year the number of C.A.E. electrical moisture meters installed was increased to 17. Electrical moisture meters are being used in Inspection offices to segregate grain of low moisture content that would otherwise require testing by the longer Brown-Duvel method. The Laboratory completed conversion charts for the 3.5 inch cell, to be used with meters in the Inspection office at Chatham.

Variety Testing

As in previous years the Laboratory took a major part in studies of the quality of spring wheat, durum wheat and malting barley varieties grown by Canadian plant breeders. These annual studies are sponsored by the Associate Committee on Grain Research. Three spring wheat varieties that have been studied for several years are now being tested, in comparison with Marquis, in a large collaborative study by chemists in Great Britain, Germany, the Netherlands, Belgium, Japan, the United States and Canada. Each chemist will make independent tests by his own methods, and it is expected that their reports will be available for study early next year. Testing procedures for spring wheat varieties are being expanded to include methods that are in general use in some importing countries. Information obtained from these supplementary tests is expected to broaden our knowledge of what constitutes quality in bread wheats, and should be useful in selecting better quality material for use as parent stock by plant breeders. Good progress has been made in developing laboratory dehulling techniques for detecting loose-hulled varieties of barley, and pearlting and pressing tests have provided useful data for evaluating barley that is used for processing as food. Good use continues to be made by plant breeders of data from small-scale prediction tests developed by the Laboratory for segregating promising durum wheat and barley hybrids in early generation material, and studies are being continued to develop similar methods for spring wheat varieties. In addition to the annual variety studies mentioned, the Laboratory has continued to make quality tests on varieties grown in the Uniform Quality Nursery. This Nursery is maintained by Canadian plant breeders to provide material for quality tests on parent stock required in the breeding program. The resulting catalogue of quality characteristics for a wide range of varieties helps the plant breeder to select parents for new crosses that will combine desirable agronomic and quality characteristics.

Services to Other Organizations

Requests for laboratory services and technical advice by the Canadian Wheat Board, the Grain Division of the Department of Trade and Commerce, and other Government bodies have continued to increase somewhat over the previous year. A good portion of this liaison work relates to promotion of sales of Canadian grain and often involves comparisons with grain from other countries. Frequent requests for information on the quality of different grades and types of Canadian grain were received from various sources, and considerable time was required to deal with them.

Close co-operation has been maintained with the Brewing and Malting Barley Research Institute, Winnipeg; with the Cereal Quality Section, Canada

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Department of Agriculture, Winnipeg; and with the Northwest Crop Improvement Association, Minneapolis. The Laboratory has continued to take an active part in the work of the American Association of Cereal Chemists and the International Association for Cereal Chemistry.

Research

Two factors this past year have disturbed the normal program of the Laboratory. The outfitting of new laboratories and the refitting of some old ones has caused some disruption in the flow of work although no essential operations have been affected. In addition, the Basic Wheat Research section has been rather short staffed, with Dr. Bushuk and Mr. Birnboim absent on academic leave, and with Dr. Cunningham resigning in August. By the end of the year, however, most of the changes were completed and with the new facilities, the program of routine testing, applied research and basic research is once again functioning smoothly and efficiently.

In applied research on wheat, systematic studies of bread wheats and durum wheats competing with Canadian wheats in the European market have been started. Research into better testing methods is continuing, and a improved baking method has been developed and is now in use. Improvements have been made in our milling equipment and our results now closely resemble those of commercial mills; work with the Experimental Wheat Conditioner has been started. A number of quality tests, used in countries which import Canadian wheat but not used on this continent, are being studied and evaluated.

The applied research project on the quality of stored flour is continuing and a constant check is being maintained on the quality of wheat in storage in Western Canada.

In basic research on wheat, the relation between dough mobility and absorption is being studied to provide a basis for fundamental studies of dough rheology using the Farinograph. A new technique, light scattering, has been applied to studies of flour constituents and the recently developed amperometric titration technique has been utilized in extensive studies of the sulfhydryl group in flour. A quantitative relationship has been established between bromate concentration in dough and the relaxation constant, while other aspects of the general study of physical properties of dough are being developed.

In barley research, more units of the new-type malting equipment are being assembled, following the success of the initial installation. Pilot brews have been prepared by the Brewing and Malting Barley Research Institute from malts made in the new equipment. The compounds responsible for wort nitrogen are being separated by electrophoresis and malting studies of low, medium and high wort nitrogen varieties are being made. The cytolytic enzymes continue to receive attention and some success has been achieved in separating this enzyme system into several components.

Staff and Facilities

The second award of the National Research Council Postdoctoral Fellowship tenable in the Board's Laboratory, was made to Dr. A. H. Bloksma of the Institute for Cereals, Flour and Bread, T.N.O., Netherlands, who arrived in August. Professor Matsumoto, the first Fellow to come, returned to Japan in July. Dr. Bloksma is working with Dr. Hlynka in dough rheology. Mr. G. S. Bains of the Central Food Technological Research Institute, Mysore, India, is a Colombo Plan Fellow who is spending a year in the Laboratory working in the Applied Wheat Research section with Dr. Irvine.

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Dr. W. Bushuk has returned to the Laboratory after a year's postdoctoral study at Strasbourg, France. Mr. M. H. Birnboim is now in his last year of study for a Ph.D. degree at the University of Wisconsin.

One addition has been made to the professional staff during the year, Mr. E. Aston, who is working in the Applied Wheat Research section, and one addition has been made to the subprofessional staff. With regret the Basic Wheat Research section lost one of its senior chemists, Dr. D. K. Cunningham, who resigned in August to accept a position in the United States. The two summer student positions were filled this year by Mr. E. J. Zebrowski and Mr. M. A. J. Morello.

Fitting out of the additional space acquired last year is nearly completed. The new milling and baking laboratories are now in operation and the Basic Wheat Research section has been rehoused on the eighth floor. Only two operations remain, moving the malting laboratory to the main floor and re-fitting the space on the eighth floor for the Applied Wheat Research section. This work should be completed before the middle of the coming year.

Overseas Visits and Visitors

Dr. Anderson was a member of the Minister's mission to the United Kingdom, the Netherlands, Belgium and Western Germany, and subsequently revisited France, Switzerland, Italy, Austria and Hungary.

Dr. Hlynka and Dr. A. G. McCalla, Dean of Graduate Studies and Agriculture, University of Alberta, undertook a mission to Japan and gave special attention to cereal research in government, university and commercial laboratories.

A group of distinguished cereal chemists from Western Germany spent several days in the laboratory during a tour of Canada. The mission comprised Professor P. F. Pelshenke, Dr. K. Ritter, and Dr. E. Fritsch, together with Dr. H. Schmitz of the Department of Food, Agriculture and Forestry.

APPENDIX I

Canadian Government Elevators

A. E. JACOBSON, General Manager

In accordance with the provisions of Section 166 of the Canadian Grain Act and Order-in-Council P.C. 1372 of August 19, 1925, the Board manages and operates five interior terminal elevators at Moose Jaw, Saskatoon, Calgary, Edmonton and Lethbridge, and one terminal elevator at Prince Rupert, and leases one terminal elevator at Port Arthur.

In the 1957-58 crop year, interior and Prince Rupert elevators were operated under Semi-Public Terminal Elevator licences. Port Arthur continued under lease to McCabe Grain Company Limited.

Handlings

Receipts at 17.4 million bushels in the 1957-58 crop year were 2½ per cent higher than the previous year. Shipments at 18.1 million bushels were 3.5 per cent lower. Shipments were .7 million bushels higher than receipts reflecting a lower in-store figure at the end of the crop year. Receipts of wheat and barley at 13.4 million bushels constituted 75 per cent of total receipts. Receipts of rapeseed were substantial, amounting to 3.7 million bushels. Shipments were 3.1 million. This grain was handled at the Saskatoon, Calgary and Edmonton elevators. Receipts at Prince Rupert were composed entirely of barley. Receipts and shipments by elevators were:

Elevator	Capacity	Stocks August 1, 1957	Net Receipts	Net Shipments	Stocks July 31, 1958
	million bu.	bushel.	bushel.	bushel.	bushel.
Moose Jaw.....	5.50	5,395,723	255,158	255,158	5,395,723
Saskatoon.....	5.50	3,272,128	2,394,505	2,475,325	3,171,128
Calgary.....	2.50	1,277,060	2,776,510	3,063,152	995,060
Edmonton.....	2.35	842,982	1,330,782	1,631,722	543,982
Lethbridge.....	1.25	692,714	354,816	146,673	908,586
Prince Rupert.....	1.25	349,697	10,357,022	10,562,860	134,890
Totals.....	18.35	11,830,304	17,468,793	18,134,890	11,149,304

Charges

Storage charges at all elevators remained unchanged: Interior elevators at 1/45c, Prince Rupert at 1/30c per bushel per day. Storage and elevation charges at Prince Rupert are the same as in effect at the Lakehead and other Pacific Coast ports. Elevation charges at the interior elevators on wheat, oats, barley and corn are 1½c per bushel, 1c per bushel lower than charges at the Lakehead and Pacific coast ports; rye at 1¼c per bushel, flax at 2¾c per bushel, are both 1½c per bushel lower than at the Lakehead and Pacific coast ports.

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Maintenance

Good maintenance practice with respect to buildings, machinery and trackage was continued. Under direction of the General Manager, a Repair and Reconstruction Unit has been created within the Canadian Government Elevators organization. It is fully equipped with construction machinery and will be responsible for the maintenance of buildings and structures at all elevators in good repair and condition. It was engaged in repair of concrete walls and supports at the Saskatoon elevator during 1958. Obsolete lighting panels at Moose Jaw, Saskatoon and Calgary were replaced with new equipment. Garner Alarm Signal systems were installed in those elevators. The Dust Control System at the Saskatoon elevator, commenced in 1957, was completed. Millwright workshops at all elevators have been equipped with power machinery sufficient to take care of all repairs to machinery, steel spouts, etc., except for very heavy repair work.

Staff

Staff employed as at December 31, 1958, compared with figures at December 31, 1957, is as follows:

	1958		1957	
	Continuing Establishment	Casuals	Continuing Establishment	Casuals
Winnipeg (Head Office).....	8	—	8	—
Moose Jaw.....	31	1	31	1
Saskatoon.....	33	11	29	10
Calgary.....	33	—	32	2
Edmonton.....	32	—	30	—
Lethbridge.....	20	—	19	3
Prince Rupert.....	34	22	29	17
Repair and Reconstruction Unit.....	—	12	—	—
	191	46	178	33

Revenue and Expenditure

Revenue and expenditure for the fiscal year 1957-58 compared with the previous fiscal year were as follows:

	1957-58	1956-57
Revenue.....	\$1,826,404	\$1,982,430
Expenditure.....	1,358,617	1,323,293
Surplus.....	467,787	659,137

For the first nine months of the current fiscal year revenue was \$1,727,269, and expenditure was \$1,090,994.

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APPENDIX J

Table J-1—EXPENDITURE, by Point, Branch and General Item, Fiscal Year end
March 31, 1958

Point and Branch	Salaries	Rent	Travelling Expenses	General Expenses	Total
WINNIPEG	\$	\$	\$	\$	\$
Executive.....	65,504.10	12,312.81	6,181.97	12,867.90	96,866 M
Assistant Commissioners.....	11,354.96	807.80	1,981.03	596.66	14,740
License and Bonding.....	26,748.48	2,520.00	288.30	2,318.24	31,875
Registration.....	37,260.97	4,184.33	370.45	683.67	42,499
Research Laboratory.....	186,149.00	22,309.09	8,504.60	58,233.11	275,195 C
Statistics.....	89,475.17	15,308.78	802.52	30,634.29	136,220
Appeal Tribunal.....	6,615.00	598.44	—	1,286.18	8,499
Standards Committee.....	—	—	2,369.10	1,830.00	4,199 P
Inspection.....	641,358.92	27,045.21	2,251.88	33,059.97	703,715
Weighing.....	64,116.66	1,623.23	1,496.59	1,810.00	69,046
CHURCHILL					V
Inspection.....	25,971.84	.66	5,259.47	567.78	31,799
Weighing.....	14,951.66	.34	3,473.09	249.77	18,674
KEEWATIN					O
Inspection.....	6,245.05	—	—	5.90	6,250
Weighing.....	9,820.38	—	—	43.47	9,863
SASKATOON					T
Assistant Commissioner.....	12,079.96	—	2,059.74	185.52	14,325 —
Inspection.....	41,597.33	877.00	—	1,376.55	43,850
Weighing.....	31,650.74	—	288.45	21.50	31,960
MOOSE JAW					=
Inspection.....	33,985.58	1,440.00	124.00	1,016.16	36,565
Weighing.....	17,684.38	—	394.57	14.32	18,093
MEDICINE HAT					V
Inspection.....	12,069.77	841.00	—	236.17	13,146
Weighing.....	9,812.76	—	130.30	31.20	9,974
LETHBRIDGE					W
Inspection.....	12,012.70	—	293.65	273.88	12,580
Weighing.....	6,050.94	—	200.77	20.00	6,271
REGINA					K
Assistant Commissioner.....	11,707.46	1,897.56	2,075.55	356.13	16,036
CALGARY					C
Inspection.....	114,153.92	7,297.00	106.35	4,438.82	125,996
Weighing.....	52,882.91	792.00	1,337.26	450.59	55,462
Appeal Tribunal.....	8,121.43	987.00	477.17	1,690.22	11,275
EDMONTON					K
Inspection.....	135,961.37	8,604.00	944.05	5,225.81	150,735
Weighing.....	15,408.82	—	81.45	97.80	15,588
Appeal Tribunal.....	3,285.00	1,170.00	202.95	948.61	5,606 S
Assistant Commissioner.....	12,079.96	1,992.00	3,288.14	301.97	17,662
VANCOUVER					N
Inspection.....	215,037.48	6,965.40	466.35	6,486.60	228,955
Weighing.....	201,632.98	2,675.40	603.58	3,296.47	208,208
Registration.....	11,545.00	1,795.20	—	273.71	13,613
FORT WILLIAM					M
Inspection.....	806,006.21	20,388.00	8,824.55	15,342.52	850,561
Weighing.....	628,650.14	4,380.00	23,814.69	9,223.05	666,067

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Table J-1.—EXPENDITURE, by Point, Branch and General Item, Fiscal Year ended March 31, 1958—Concluded

Point and Branch	Salaries	Rent	Travelling Expenses	General Expenses	Total
TORONTO	\$	\$	\$	\$	\$
Inspection.....	9,423.86	1,200.00	344.75	514.70	11,483.31
Weighing.....	4,655.00	—	—	—	4,655.00
MONTREAL					
Inspection.....	110,021.71	5,418.00	10,278.65	3,033.87	128,752.23
Weighing.....	5,547.50	1,178.28	774.09	430.43	7,930.30
Registration.....	18,075.00	2,388.72	—	886.21	21,349.93
CHATHAM					
Inspection.....	39,886.27	1,380.00	12,220.98	1,354.45	54,841.70
PRINCE RUPERT					
Inspection.....	13,120.26	—	2,236.66	29.18	15,386.10
Weighing.....	11,789.46	—	703.72	52.00	12,545.18
VICTORIA					
Inspection.....	11,176.61	—	259.82	68.84	11,505.27
Weighing.....	8,802.13	—	228.71	—	9,030.84
OTTAWA					
Inspection.....	12,560.00	25.00	2,884.93	191.75	15,661.68
Totals	3,824,046.83	160,402.25	108,624.88	202,055.97	4,295,129.93

Table J-2—Accrued Revenue, by Point and Branch, Fiscal Year ended March 31, 1958

Point and Branch	Fees	Samples Sold	Other Revenue (a)	Total
WINNIPEG	\$	\$	\$	\$
Executive.....	—	—	200.00	200.00
License and Bonding.....	29,131.00	—	—	29,131.00
Registration.....	24,643.03	—	6.27	24,649.30
Appeal Tribunal.....	1,668.00	—	—	1,668.00
Research Laboratory.....	—	—	—	—
Inspection.....	309,954.44	8,984.04	3,545.00	322,483.48
Weighing.....	27,571.67	—	1,616.90	29,188.57
CHURCHILL				
Inspection.....	52,765.92	—	—	52,765.92
Weighing.....	26,382.96	—	—	26,382.96
KEEWATIN				
Inspection.....	6,500.40	—	373.02	6,873.42
Weighing.....	8,273.46	—	505.98	8,779.44
SASKATOON				
Inspection.....	24,644.67	834.34	—	25,479.01
Weighing.....	12,606.71	—	—	12,606.71
MOOSE JAW				
Inspection.....	9,809.27	344.72	88.64	10,242.63
Weighing.....	5,164.31	—	—	5,164.31
MEDICINE HAT				
Inspection.....	9,268.34	282.74	—	9,551.08
Weighing.....	6,106.86	—	486.88	6,593.74

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Table J-2.—Accrued Revenue, by Point and Branch, Fiscal Year ended March 31, 1958
Concluded

Point and Branch	Fees	Samples Sold	Other Revenue (a)	Total
LETHBRIDGE	\$	\$	\$	\$
Inspection.....	3,791.78	331.18	—	4,122.96
Weighing.....	1,337.35	—	—	1,337.35
CALGARY				
Inspection.....	111,478.76	2,619.44	642.65	114,740.85
Weighing.....	20,363.19	—	820.16	21,183.35
Appeal Tribunal.....	2,112.00	—	—	2,112.00
EDMONTON				
Inspection.....	86,282.07	2,062.44	555.66	88,900.17
Weighing.....	3,313.14	—	53.82	3,366.96
Appeal Tribunal.....	1,044.00	—	—	1,044.00
VANCOUVER				
Inspection.....	315,568.13	10,540.29	646.13	326,754.55
Weighing.....	241,730.52	—	258.75	241,989.27
Registration.....	13,057.92	—	—	13,057.92
VICTORIA				
Inspection.....	8,625.42	154.98	—	8,780.40
Weighing.....	6,166.20	—	—	6,166.20
PRINCE RUPERT				
Inspection.....	15,192.59	158.53	—	15,351.12
Weighing.....	10,931.57	—	—	10,931.57
FORT WILLIAM				
Inspection.....	588,813.65	8,197.21	1,551.67	598,562.53
Weighing.....	443,940.77	—	3,172.94	447,113.71
TORONTO				
Inspection.....	4,419.53	91.50	174.44	4,685.47
Weighing.....	4,655.00	—	—	4,655.00
CHATHAM				
Inspection.....	42,594.48	646.80	1,832.95	45,074.23
MONTREAL				
Inspection.....	12,745.30	420.80	3,470.60*	16,636.70
Weighing.....	.20	—	—	.20
Registration.....	8,343.85	—	—	8,343.85
Totals.....	2,500,998.46	35,669.01	20,002.46	2,556,669.93

(a) Details in Table J-4.

*Includes \$2,952.79 Refund of Previous Year's Expenditure.

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Table J-3.—Accrued Revenue and Net Expenditure, by Points and Branches, Fiscal Year ended March 31, 1958

	Inspection	Weighing	Appeal Tribunals	Registration	License and Bonding	Statistics	Research Laboratory	Grain Standards Committee	Administration	Total
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
REVENUE										
Winnipeg.....	322,483.48	29,188.57	1,668.00	24,649.30	29,131.00	—	—	—	200.00	407,320.35
Churchill.....	52,765.92	26,382.96	—	—	—	—	—	—	—	79,148.88
Keewatin.....	6,873.42	8,779.44	—	—	—	—	—	—	—	15,652.86
Saskatoon.....	25,479.01	12,606.71	—	—	—	—	—	—	—	38,085.72
Moose Jaw.....	10,242.63	5,164.31	—	—	—	—	—	—	—	15,406.94
Medicine Hat.....	9,551.08	6,593.74	—	—	—	—	—	—	—	16,144.82
Lethbridge.....	4,122.96	1,337.35	—	—	—	—	—	—	—	5,460.31
Calgary.....	114,740.85	21,183.35	2,112.00	—	—	—	—	—	—	138,036.20
Edmonton.....	88,900.17	3,366.96	1,044.00	13,057.92	—	—	—	—	—	93,311.13
Vancouver.....	326,754.55	241,989.27	—	—	—	—	—	—	—	581,801.74
Victoria.....	8,780.40	6,166.20	—	—	—	—	—	—	—	14,946.60
Prince Rupert.....	15,351.12	10,931.57	—	—	—	—	—	—	—	26,282.69
Fort William.....	598,562.53	447,113.71	—	—	—	—	—	—	—	1,045,676.24
Toronto.....	4,685.47	4,655.00	—	—	—	—	—	—	—	9,340.47
Chatham.....	45,074.23	—	20	—	8,343.85	—	—	—	—	45,074.23
Montreal.....	16,636.70	—	—	—	—	—	—	—	—	24,980.75
Ottawa.....	—	—	—	—	—	—	—	—	—	—
Totals.....	1,651,004.52	825,459.34	4,824.00	46,051.07	29,131.00	—	—	—	200.00	2,556,669.93

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Table J-3.—Accrued Revenue and Net Expenditure, by Points and Branches, Fiscal Year ended March 31, 1958—Concluded

		Inspection	Weighing	Appeal Tribunals	Registration	License and Bonding	Statistics	Research Laboratory	Grain Standards Committee	Administration	Total
		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
EXPENDITURE											
Winnipeg.....	703,715.98	69,046.48	8,499.62	42,499.42	31,875.02	136,220.76	275,195.80	4,199.10	111,607.23	1,382,859.41	
Churchill.....	31,799.75	18,674.86	—	—	—	—	—	—	—	50,474.61	
Keweenaw.....	6,250.95	9,863.85	—	—	—	—	—	—	—	16,114.80	
Saskatoon.....	43,850.88	31,960.69	—	—	—	—	—	—	—	90,136.79	
Moose Jaw.....	36,565.74	18,093.27	—	—	—	—	—	—	—	54,659.01	
Medicine Hat.....	13,146.94	9,974.26	—	—	—	—	—	—	—	23,121.20	
Lethbridge.....	12,580.23	6,271.71	—	—	—	—	—	—	—	18,851.94	
Regina.....	—	—	—	—	—	—	—	—	—	—	
Calgary.....	125,996.09	55,462.76	11,275.82	—	—	—	—	—	—	16,036.70	
Edmonton.....	150,735.23	15,588.07	5,606.56	—	—	—	—	—	—	17,662.07	
Vancouver.....	228,955.83	208,208.43	—	—	—	—	—	—	—	—	
Victoria.....	11,505.27	9,030.84	—	—	—	—	—	—	—	20,536.11	
Prince Rupert.....	15,386.10	12,545.18	—	—	—	—	—	—	—	27,931.28	
Fort William.....	850,561.28	666,067.88	—	—	—	—	—	—	—	1,516,629.16	
Toronto.....	11,483.31	4,655.00	—	—	—	—	—	—	—	16,138.31	
Chatham.....	54,841.70	—	—	—	—	—	—	—	—	54,841.70	
Montreal.....	128,752.23	7,930.30	—	—	—	—	—	—	—	158,032.46	
Ottawa.....	15,661.68	—	—	—	—	—	—	—	—	15,661.68	
Totals.....	2,441,789.19	1,143,373.58	25,382.00	77,463.26	31,875.02	136,220.76	275,195.80	4,199.10	159,631.22	4,295,129.93	

BOARD OF GRAIN COMMISSIONERS

Table J-4.—Summary of Operations by Branches, Fiscal Year ended March 31, 1958

	Inspection	Weighing	Appeal Tribunals	Registration	License and Bonding	Statistics	Research Laboratory	Grain Standards Committee	Administration	Total
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
REVENUE										
EXPENDITURE										
Fees.....	1,602,454.75	818,543.91	4,824.00	46,044.80	29,131.00	—	—	—	—	2,500,998.46
Samples Sold.....	35,669.01	—	—	—	—	—	—	—	—	35,669.01
Other Revenue:										
Overtime Refunded	5,915.47	6,897.43	—	—	—	—	—	—	—	12,812.90
Express Charges.....	3,859.50	—	—	—	—	—	—	—	—	3,859.50
Jury Fees.....	153.00	18.00	—	—	—	—	—	—	—	171.00
Fines.....	—	—	—	—	—	—	—	—	—	200.00
Refund of Previous Year's Expenses.	2,952.79	—	—	—	—	—	—	—	—	2,952.79
Miscellaneous Revenue.....	—	—	—	6.27	—	—	—	—	—	6.27
Totals.....	1,651,004.52	825,459.34	4,824.00	46,051.07	29,131.00	—	—	—	—	200.00
										2,556,669.93

APPENDIX K

Regulations

Regulations in effect December 31, 1958, made in accordance with the provisions of the Canada Grain Act

Regulation

No.

- 1 Registration and Cancellation of Terminal Elevator Warehouse Receipts.
- 2 Registration and Cancellation of Eastern Warehouse Receipts and Transfer Receipts.
- 3 Plans re Terminal and Eastern Elevators.
- 4 Cleaning of Grain and Bins.
- 5 Off Grades for Western Grain.
- 6 Off Grades for Eastern Grain.
- 7 Grades of Screenings.
- 8 Inspection of Samples taken other than at an Inspection Point.
- 9 Appeals from Inspecting Officers to Grain Appeal Tribunals.
- 10 Delivery of Grain to Ocean Vessels at Montreal, Quebec.
- 11 Delivery of Grain to Ocean Vessels at West Saint John, N.B.
- 12 Delivery of Grain to Ocean Vessels at East Saint John, N.B.
- 13 Delivery of Grain to Ocean Vessels at Halifax, N.S.
- 14 Enforcement of Lien by Sale of Grain.
- 15 Drying of Grain.
- 16 Fees.
- 17 Records, Reports and Returns.
- 18 Procedure, Country Elevators.
- 19 Receipt for Grain Delivered to Private Country Elevators and Mill Elevators.
- 20 Maximum Tariff of Charges, Eastern Elevators.
- 21 Maximum Tariff of Charges and Shrinkage Allowance, Country Elevators.
- 22 Maximum Tariff of Charges, Terminal Elevators.
- 23 Applications for Licences, and Terms and Conditions under which Licences are issued.
- 24 Storage in Transit of Grain Grown Outside Canada.
- 25 Tickets and Receipts—Country Elevators.
- 26 Grain Treated with Poisonous Materials.
- 27 Shipment of Infested Grain.

Date Due

HD 9044 C25 C24 1958
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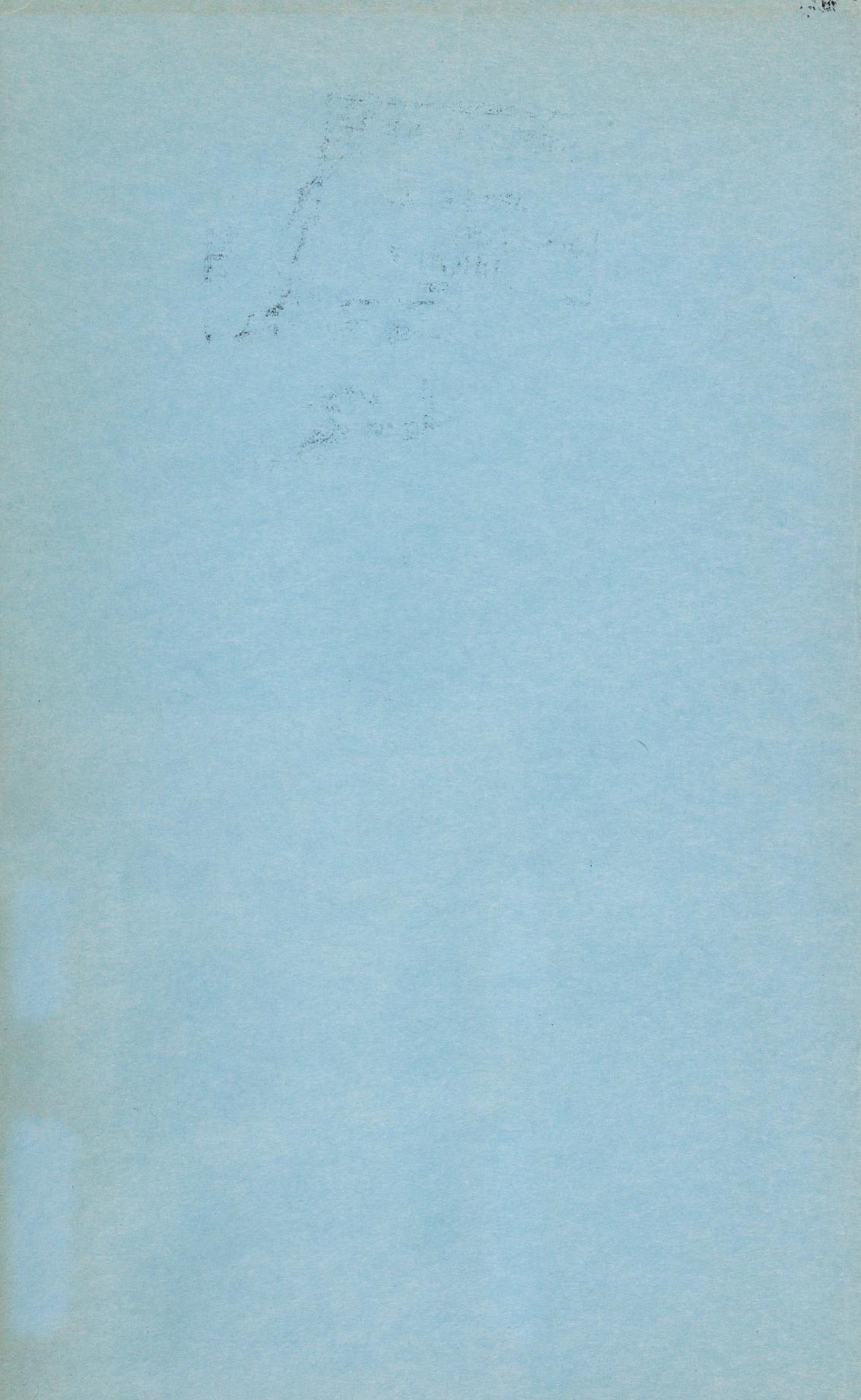


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